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NMTBA
The Association For Manufacturing Technology
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REPORT

STATISTICAL
No. 143-90 October 31, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – AUGUST 1990
(Values in Millions of U.S. Dollars)

	Aug. 1990	July 1990	Average May-July	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 45.4	$ 48.9	$ 46.5	$ 401.6	$ 311.6	28.9%
Imports	$192.4	$190.7	$151.2	$1,226.6	$1,289.8	(4.9%)
Balance	($147.0)	($141.8)	($104.7)	($ 825.0)	($ 978.2)	(15.7%)
METAL FORMING MACHINE TOOLS						
Exports	$ 35.5	$ 34.7	$ 38.8	$ 309.9	$ 322.5	(3.9%)
Imports	$ 61.5	$ 41.3	$ 40.4	$ 334.8	$ 390.0	(14.2%)
Balance	($ 26.0)	($ 6.6)	($ 1.6)	($ 24.9)	($ 67.5)	(63.1%)
MACHINE TOOL TOTAL						
Exports	$ 81.0	$ 83.6	$ 85.2	$ 711.6	$ 634.1	12.2%
Imports	$253.9	$232.0	$191.5	$1,561.4	$1,679.7	(7.0%)
Balance	($172.9)	($148.4)	($106.3)	($ 849.8)	($1,045.6)	(18.7%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 27.7	$ 27.9	$ 24.8	$ 231.0	$ 156.5	47.6%
Imports	$142.4	$119.9	$ 94.4	$ 833.4	$ 887.9	(6.1%)
Balance	($114.7)	($ 92.0)	($ 69.6)	($ 602.4)	($ 731.4)	(17.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$151.7	$135.7	$152.7	$1,208.0	N.A.	N.A.
Imports	$173.6	$164.2	$154.7	$1,325.1	N.A.	N.A.
Balance	($ 21.9)	($ 28.5)	($ 2.0)	($ 117.1)	N.A.	N.A.

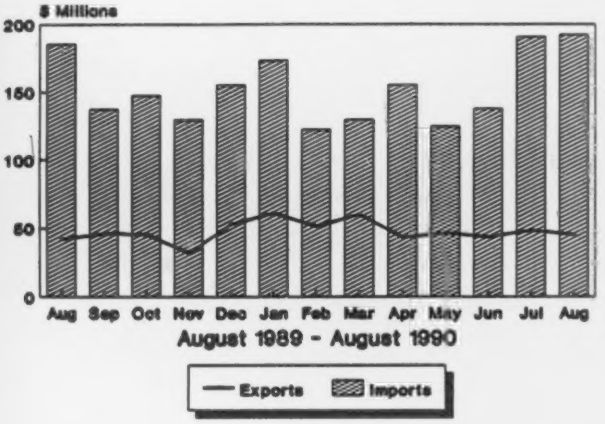
Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

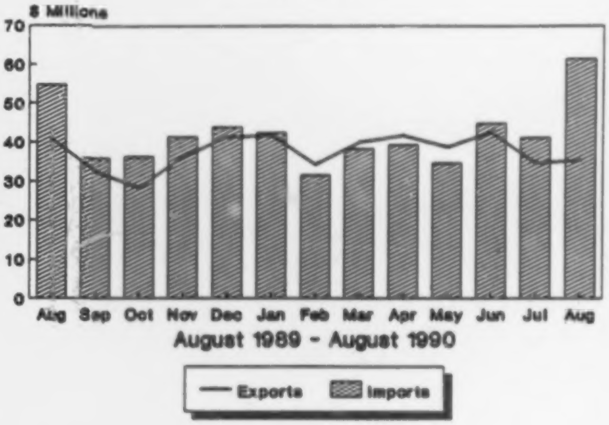
- Total machine tool imports in August rose to $253.9 million, the highest monthly total ever. Combined imports in July and August of $485.9 is easily the highest two-month total ever.

- In 1990 through August, U.S. machine tool exports were 12% higher than the comparable period in 1989. Exports of NC machines were up 48% over 1989.

- The overall U.S. machine tool trade deficit improved 19% through August 1990 at $849.8 million. The comparable number in 1989: $1,045.6.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING


METAL FORMING

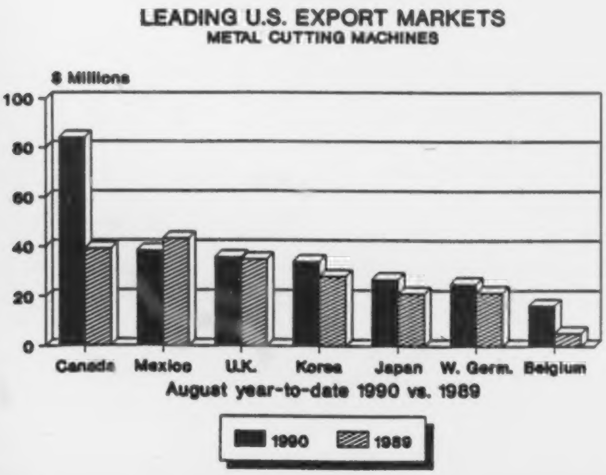
METAL CUTTING MACHINE TOOLS

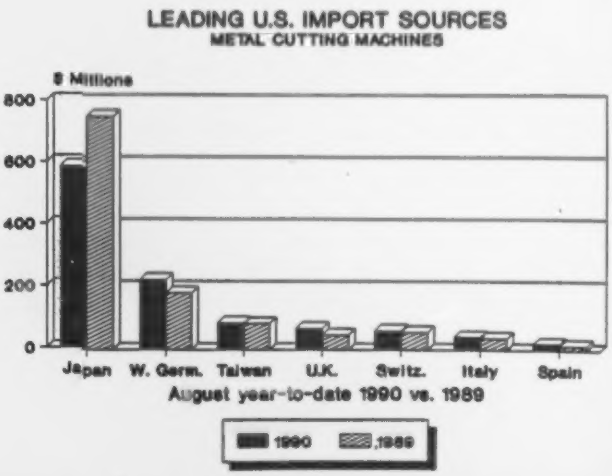
Exports

- Metal cutting exports in August were $45.4 million, down 7% from July and down 2% from the average for the previous three months. The total so far in 1990: $401.6 million, up 29% over 1989.

- Exports of vertical NC lathes in August were $4.9 million -- the total for January-July combined: $3.0 million. (Of the $4.9 million total, $4.1 million went to India.) Exports of grinding machines were $14.1 million in August, the second straight big monthly increase for that category.

- Canada remains the dominant export market at $84.3 million through August, up 115% over 1989. Japan was the largest market in August at $7.1 million, by far its highest monthly total in 1990.


LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES


LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES

Imports

- U.S. metal cutting imports in August were a record $192.4 million, up slightly from the previous record set the month before.

- Metal cutting imports from West Germany in August were $54.2 million, up from $47.7 million in July. July and August represent Germany's two highest months ever. (Germany's 1990 average excluding July and August: $20.5 million.) Metal cutting imports from Japan in August were unchanged from July.

- Imports of gear cutting machines were $7.5 million in August, up from an average of $3.6 million for the first seven months of 1990, for a year-to-date total of $32.6 million. The top suppliers so far in 1990: West Germany ($19.7 million), Switzerland ($5.0 million), and Japan ($4.8 million).

METAL FORMING MACHINE TOOLS

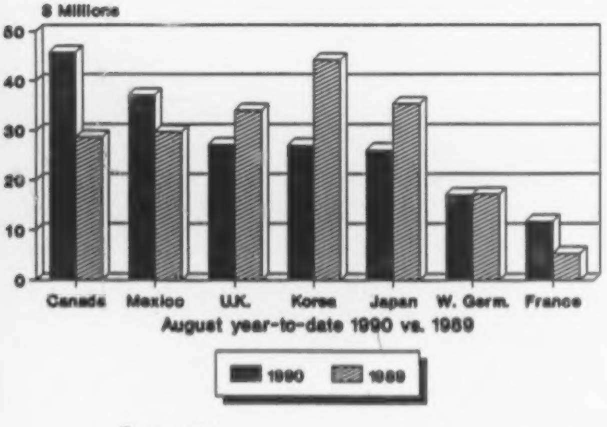
Exports

- U.S. exports of metal forming machines rose slightly in August over July to $35.5 million. The average so far in 1990: $38.7 million.

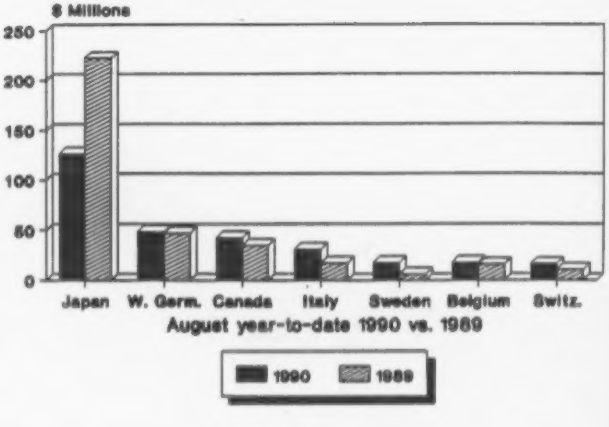
- Canada remains the top export market at $45.8 million, up from $28.6 million in 1989, followed by Mexico ($37.1 million) and the United Kingdom ($27.2 million).

- Exports of bending and forming machines so far in 1990 ($44.2 million) are 32% higher than in 1989; exports of punching and shearing machines are up 12%.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Metal forming imports jumped to $61.5 million in August, up from an average of $39.0 million from January-July 1990. August's total is the sixth highest monthly total ever.

- Imports of presses in August shot to $21.0 million, up from $6.8 million in July, while imports of bending and forming machines rose to $15.1 million in August from $6.1 million in July.

- Imports from Sweden were $12.9 million in August, more than double the January-July total. The reason: one NC bending and forming machine valued at $3.0 million and two NC hydraulic presses valued at $9.6 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of other manufacturing technology rose to $151.7 million in August, about equal to the average monthly total for the year.

- Exports of industrial robots were $6.8 million in August; the monthly average so far in 1990: $5.6 million. Exports of laser, light or photon beam machines for working any material were $6.2 million in August; the monthly average so far in 1990: $4.0 million.

- Exports of machine tool parts and accessories were $474.4 million in 1990 through August, down from $477.6 million in 1989.

Imports

- U.S. imports of of other manufacturing technology were $173.6 million in August, up from $164.2 million in July and $147.4 million in June.

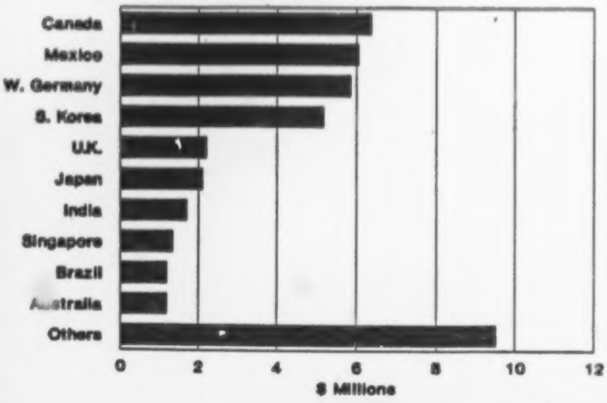
- Imports of laser, light or photon machines for working any material were $6.7 million in August; the average for 1990: $4.3 million.

- Imports of injection molding machines for working all materials were $31.3 million in August, for a year-to-date total of $216.5 million. Japan has supplied 43%, or $92.1 million, of the $216.5 million.

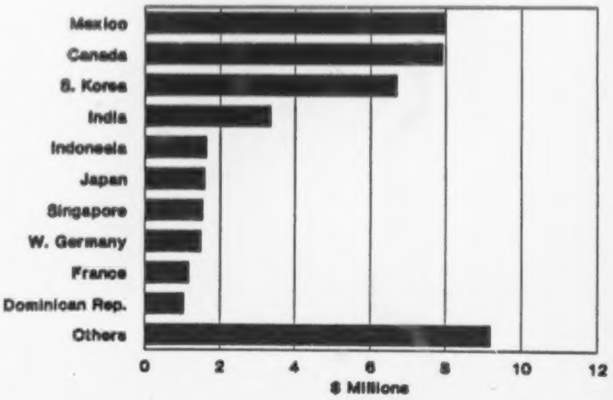
MONTHLY FOCUS

Through the first eight months of 1990, U.S. exports of used and rebuilt machines totalled $86.1 million, down slightly from the $87.7 million at the same time last year. Of the $86.1 million, metal cutting machines account for $42.6 million, or 49%, while metal forming machines account for $43.5 million, or 51%. The charts below detail the destinations of U.S. exports of used and rebuilt machine tools in 1990 through August. Canada is the largest market at $14.3 million, followed by Mexico ($14.0 million), South Korea ($11.8 million), West Germany ($7.3 million) and India ($5.0 million).

U.S. Exports of Used or Rebuilt
Metal Cutting Machines Jan.-Aug. 1990



U.S. Exports of Used or Rebuilt
Metal Forming Machines Jan.-Aug. 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD’90	AUG YTD’89	%CHANGE
Canada	$ 5,797,617	$ 9,558,187	-39.34%	$84,259,058	$39,198,836	114.95%
Mexico	6,661,079	3,302,782	101.68	38,403,252	43,388,314	-11.49
U.K.	3,240,440	2,514,315	28.88	35,758,332	34,929,364	2.37
Korea	2,391,974	4,061,765	-41.11	33,989,259	27,979,266	21.48
Japan	7,146,552	4,292,618	66.48	26,989,066	21,116,107	27.81
West Germany	1,860,361	1,679,859	10.75	25,227,164	21,698,894	16.26
Belgium	957,009	1,336,072	-28.37	16,463,910	5,226,156	215.03
India	4,695,070	551,288	751.65	15,370,787	8,025,989	91.51
China	1,901,325	337,484	463.38	14,152,707	18,804,866	-24.74
Autralia	3,182,356	254,051	1,152.64	13,443,428	7,424,646	81.06
Italy	855,507	3,498,144	-75.54	12,482,980	10,053,899	24.16
Brazil	925,401	840,075	10.16	10,464,635	6,640,888	57.58
Taiwan	522,368	4,824,914	-89.17	8,746,521	5,650,175	54.80
France	85,519	1,288,794	-93.36	6,251,067	9,521,298	-34.35
Singapore	906,954	765,516	18.48	6,076,267	5,907,832	2.85
Venzuela	829,927	213,555	288.62	4,702,024	4,675,429	0.57
Switzerland	390,405	1,086,587	-64.07	4,505,898	2,754,336	63.59
Spain	42,852	1,741,512	-97.54	4,460,242	2,773,112	60.84
Netherlands	343,353	1,180,542	-70.92	4,050,817	3,425,833	18.24
USSR	0	465,855	-100.00	3,707,174	1,219,935	203.88
Malaysia	972,466	535,305	81.67	2,150,679	723,815	197.13
Thailand	201,994	40,625	397.22	1,388,277	1,876,029	-26.00
Austria	29,816	6,892	332.62	226,757	983,240	-76.94
Indonesia	28,201	7,209	291.19	166,252	3,774,110	-95.59

METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD’90	AUG YTD’89	%CHANGE
Canada	$ 5,442,737	$ 4,733,985	14.97%	$45,814,978	$28,596,693	60.21%
Mexico	3,927,382	4,212,057	-6.76	37,132,190	29,749,294	24.82
U.K.	1,145,530	2,364,764	-51.56	27,237,554	34,079,789	-20.08
Korea	4,181,197	2,794,171	49.64	27,029,206	44,205,349	-38.86
Japan	4,211,843	3,468,414	21.43	26,140,536	35,374,307	-26.10
West Germany	1,097,303	2,576,570	-57.41	17,110,225	17,284,022	-1.01
France	535,365	1,526,959	-64.94	11,805,247	5,341,135	121.03
China	497,350	412,000	20.72	11,376,279	8,022,455	41.81
Taiwan	529,633	652,523	-18.83	10,169,553	11,869,049	-14.32
Italy	738,009	246,961	198.84	6,644,691	6,383,367	4.09
India	17,654	416,593	-95.76	5,736,995	6,564,539	-12.61
Netherlands	1,055,977	668,319	58.00	5,714,784	5,651,429	1.12
Brazil	1,033,206	1,323,186	-21.92	5,102,541	5,333,108	-4.32
Spain	170,589	1,147,429	-85.13	4,639,932	3,250,502	42.75
Indonesia	2,093,331	2,195,049	-4.63	4,339,474	152,452	2,746.45
Singapore	263,200	744,197	-64.63	4,279,494	6,609,347	-35.25
Malaysia	125,526	783,382	-83.98	4,037,771	1,340,336	201.25
Autralia	154,478	467,673	-66.97	3,915,179	5,036,315	-22.26
Thailand	370,817	808,493	-54.13	3,607,644	3,234,442	11.54
Belgium	154,389	62,640	146.47	2,311,019	2,311,735	-0.03
Austria	386,078	90,303	327.54	2,108,866	662,010	218.56
Switzerland	192,190	114,823	67.38	1,687,521	1,180,106	43.00
Venzuela	59,820	105,075	-43.07	1,027,995	7,485,819	-86.27
USSR	0	0	NA	694,819	107,711	545.08

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD’90	AUG YTD’89	%CHANGE
Canada	$11,240,354	$14,292,172	-21.35%	$130,074,036	$67,795,529	91.86%
Mexico	10,588,461	7,514,839	40.90	75,535,442	73,137,608	3.28
U.K.	4,385,970	4,879,079	-10.11	62,995,886	69,009,153	-8.71
Korea	6,573,171	6,855,936	-4.12	61,018,465	72,184,615	-15.47
Japan	11,358,395	7,761,032	46.35	53,129,602	56,490,414	-5.95
West Germany	2,957,664	4,256,429	-30.51	42,337,389	38,982,916	8.60
China	2,398,675	749,484	220.04	25,528,986	26,827,321	-4.84
India	4,712,724	967,881	386.91	21,107,782	14,590,528	44.67
Italy	1,593,516	3,745,105	-57.45	19,127,671	16,437,266	16.37
Taiwan	1,052,001	5,477,437	-80.79	18,916,074	17,519,224	7.97
Belgium	1,111,398	1,398,712	-20.54	18,774,929	7,537,891	149.07
France	620,884	2,815,753	-77.95	18,056,314	14,862,433	21.49
Autralia	3,336,834	721,724	362.34	17,358,607	12,460,961	39.30
Brazil	1,958,607	2,163,261	-9.46	15,567,176	11,973,996	30.01
Singapore	1,170,154	1,509,713	-22.49	10,355,761	12,517,179	-17.27
Netherlands	1,399,330	1,848,861	-24.31	9,765,601	9,077,262	7.58
Spain	213,441	2,888,941	-92.61	9,100,174	6,023,614	51.07
Switzerland	582,595	1,201,410	-51.51	6,193,419	3,934,442	57.42
Malaysia	1,097,992	1,318,687	-16.74	6,188,450	2,064,151	199.81
Venzuela	889,747	318,630	179.24	5,730,019	12,161,248	-52.88
Thailand	572,811	849,118	-32.54	4,995,921	5,110,471	-2.24
Indonesia	2,121,532	2,202,258	-3.67	4,505,726	3,926,562	14.75
USSR	0	465,855	-100.00	4,401,993	1,327,646	231.56
Austria	415,894	97,195	327.90	2,335,623	1,645,250	41.96

1990 IMPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$82,828,649	$82,868,942	-0.05%	$585,436,854	$750,489,980	-21.99%
West Germany	54,244,598	47,717,660	13.68	224,717,982	181,755,614	23.64
Taiwan	9,779,840	11,572,427	-15.49	86,793,995	83,877,378	3.48
U.K.	7,444,968	8,188,425	-9.08	69,066,497	48,171,385	43.38
Switzerland	11,407,997	9,304,644	22.61	62,417,990	57,170,526	9.18
Italy	4,333,233	5,467,288	-20.74	41,492,815	37,699,667	10.06
Spain	3,854,207	4,666,415	-17.41	20,119,355	13,804,071	45.75
France	1,749,607	5,537,454	-68.40	20,004,136	17,514,821	14.21
Canada	1,116,904	2,011,567	-44.48	15,214,274	13,671,160	11.29
Korea	2,525,145	603,361	318.51	13,689,072	16,851,690	-18.77
Singapore	1,107,136	1,772,163	-37.53	13,663,260	10,367,268	31.79
Sweden	2,531,801	1,982,368	27.72	11,237,172	7,687,616	46.17
Brazil	493,347	347,652	41.91	9,495,423	4,168,824	127.77
Belgium	205,399	11,578	1,674.05	1,232,717	4,498,308	-72.60

METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$20,859,668	$18,257,269	14.25%	$126,762,938	$222,503,150	-43.03%
West Germany	8,913,567	6,335,644	40.69	48,772,434	46,922,059	3.94
Canada	5,321,903	6,662,784	-20.12	42,625,543	34,920,819	22.06
Italy	5,304,790	2,613,845	102.95	31,112,656	17,133,104	81.59
Sweden	12,935,168	599,386	2,058.07	17,838,349	5,956,195	199.49
Belgium	1,186,838	1,650,249	-28.08	17,544,919	15,735,839	11.50
Switzerland	1,949,858	2,061,889	-5.43	16,280,122	10,665,177	52.65
U.K.	1,884,725	620,830	203.58	9,845,592	9,708,639	1.41
Taiwan	607,741	869,450	-30.10	7,181,324	5,902,348	21.67
Spain	268,229	310,629	-13.65	3,079,239	1,937,267	58.95
France	362,485	312,238	16.09	2,818,007	1,170,445	140.76
Korea	390,655	0	NA	514,347	174,508	194.74
Brazil	200,000	0	NA	200,000	4,508,589	-95.56
Singapore	5,233	7,908	-33.83	70,200	725,962	-90.33

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$103,688,317	$101,126,211	2.53%	$712,199,792	$972,993,130	-26.80%
West Germany	63,158,165	54,053,304	16.84	273,490,416	228,677,673	19.60
Taiwan	10,387,581	12,441,877	-16.51	93,975,319	89,779,726	4.67
U.K.	9,329,693	8,809,255	5.91	78,912,089	57,880,024	36.34
Switzerland	13,357,855	11,366,533	17.52	78,698,112	67,835,703	16.01
Italy	9,638,023	8,081,133	19.27	72,605,471	54,832,771	32.41
Canada	6,438,807	8,674,351	-25.77	57,839,817	48,591,979	19.03
Sweden	15,466,969	2,581,754	499.09	29,075,521	13,643,811	113.10
Spain	4,122,436	4,977,044	-17.17	23,198,594	15,741,338	47.37
France	2,112,092	5,849,692	-63.89	22,822,143	18,685,266	22.14
Belgium	1,392,237	1,661,827	-16.22	18,777,636	20,234,147	-7.20
Korea	2,915,800	603,361	383.26	14,203,419	17,026,198	-16.58
Singapore	1,112,369	1,780,071	-37.51	13,733,460	11,093.230	23.80
Brazil	693,347	347,652	99.44	9,695,423	8,677,413	11.73

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	AUG'90 Y-T-D TOTALS		AUGUST 1989		AUG'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	40,083	109,051,835	5,859	10,954,511	37,681	100,904,418
Boring Machines	117	13,477,474	26	1,370,063	204	12,284,705
Drilling Machines	739	12,663,181	42	1,575,597	215	11,360,454
Gear Cutting Machines	159	35,694,886	18	3,423,837	184	25,478,350
Grinding Machines	2,478	89,351,406	349	12,629,954	2,634	87,806,993
Horizontal Lathes NC	300	32,202,618	12	1,014,932	151	14,981,247
Vertical Lathes NC	48	7,820,818	3	368,610	15	2,033,391
Lathes Non-NC	519	11,909,833	39	1,110,067	350	9,886,385
Milling Machines	296	24,579,727	39	1,503,000	416	21,390,672
Machining Centers	277	42,160,821	34	3,690,718	184	26,814,988
Station Type Machines	51	21,066,899	6	5,025,800	37	14,317,764
Other Metal Cutting	2,620	52,397,573	178	4,880,157	1,594	39,459,383
Punching & Shearing Machines	1,056	45,481,478	118	6,391,378	822	40,678,336
Bending & Forming Machines	1,239	44,248,076	80	4,172,832	716	33,568,214
Presses	1,572	68,648,324	118	8,418,897	1,013	53,733,579
Forging Machines	275	34,883,492	77	2,971,894	494	25,846,100
Other Metal Forming	2,171	65,931,923	277	13,789,261	2,972	113,587,111
TOTAL	54,000	711,570,364	7,275	83,291,508	49,682	634,132,090

PRODUCT TYPES	% CHANGE JUL 90' - AUG 90'		% CHANGE AUG 89' - AUG 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-3.86	11.31	-17.00	33.38	6.37	8.07
Boring Machines	-50.00	-67.94	-69.23	-25.23	-42.65	9.71
Drilling Machines	60.66	-4.40	133.33	5.29	243.72	11.47
Gear Cutting Machines	-88.57	-74.32	-77.78	-34.39	-13.59	40.10
Grinding Machines	-16.92	26.01	-7.16	11.40	-5.92	1.76
Horizontal Lathes NC	0.00	-27.21	150.00	154.99	98.68	114.95
Vertical Lathes NC	140.00	1,654.88	300.00	1,217.83	220.00	284.62
Lathes Non-NC	-4.62	85.03	58.97	49.92	48.29	20.47
Milling Machines	-15.15	-64.23	-28.21	24.81	-28.85	14.91
Machining Centers	-33.33	-2.77	-52.94	-37.12	50.54	57.23
Station Type Machines	-100.00	-100.00	-100.00	-100.00	37.84	47.14
Other Metal Cutting	-13.11	24.37	30.34	20.10	64.37	32.79
Punching & Shearing Machines	-44.76	-56.49	-33.05	-64.80	28.47	11.81
Bending & Forming Machines	97.79	81.56	236.25	125.90	73.04	31.82
Presses	-8.28	-3.04	12.71	-42.10	55.18	27.76
Forging Machines	-35.71	6.27	-64.94	86.76	-44.33	34.97
Other Metal Forming	1.30	-21.15	-15.88	-55.94	-26.95	-41.95
TOTAL	-3.94	-3.17	-11.78	-2.81	8.69	12.21

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	AUG'90 Y-T-D TOTALS		AUGUST 1989		AUG'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	607,673	102,353,511	74,032	16,965,543	450,143	107,553,718
Boring Machines	409	27,905,736	75	3,376,302	598	41,216,983
Drilling Machines	1,062	32,299,129	248	9,230,435	1,318	60,444,157
Gear Cutting Machines	340	32,600,514	57	5,892,446	515	30,235,762
Grinding Machines	5,926	201,220,058	829	32,609,425	5,459	200,576,927
Horizontal Lathes NC	2,271	219,476,262	352	32,470,483	2,857	259,499,919
Vertical Lathes NC	137	18,892,760	16	1,717,600	108	17,374,150
Lathes Non-NC	5,610	81,077,466	540	6,924,904	3,688	60,477,313
Milling Machines	3,792	58,095,804	641	11,154,525	4,029	80,664,673
Machining Centers	2,236	288,791,705	396	40,355,378	2,451	269,138,823
Station Type Machines	124	52,110,538	32	9,664,860	160	47,028,346
Other Metal Cutting	3,491	128,900,206	504	16,912,954	3,477	130,889,547
Punching & Shearing Machines	1,215	50,466,157	106	5,451,018	1,233	52,265,127
Bending & Forming Machines	1,566	63,489,451	153	8,870,175	1,861	66,077,653
Presses	2,612	71,298,586	148	23,625,962	1,261	116,669,892
Forging Machines	639	41,198,509	94	4,160,854	1,138	63,395,172
Other Metal Forming	1,857	91,226,795	238	10,893,099	3,784	76,229,561
TOTAL	640,960	1,561,403,187	78,461	240,275,963	484,080	1,679,737,723

PRODUCT TYPES	% CHANGE JUL'90 - AUG'90		% CHANGE AUG'89 - AUG'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-8.20	-4.76	-5.53	-22.20	35.00	-4.83
Boring Machines	-54.55	-40.05	-46.67	36.16	-31.61	-32.30
Drilling Machines	-40.91	-37.07	-47.58	-48.70	-19.42	-46.56
Gear Cutting Machines	92.86	89.03	-5.26	27.03	-33.98	7.82
Grinding Machines	5.26	-17.19	-0.97	-2.38	8.55	0.32
Horizontal Lathes NC	-10.46	10.17	-22.16	-6.75	-20.51	-15.42
Vertical Lathes NC	39.29	-15.26	143.75	83.39	26.85	8.74
Lathes Non-NC	-37.67	-7.47	-7.78	20.44	52.11	34.06
Milling Machines	-37.63	-21.16	-45.71	-30.16	-5.88	-27.98
Machining Centers	-12.13	-11.96	-39.65	1.06	-8.77	7.30
Station Type Machines	30.77	64.64	-46.88	54.70	-22.50	10.81
Other Metal Cutting	25.75	70.33	7.54	60.94	0.40	-1.52
Punching & Shearing Machines	18.12	-19.75	53.77	20.24	-1.46	-3.44
Bending & Forming Machines	33.33	148.16	41.18	70.20	-15.85	-3.92
Presses	221.00	207.71	509.46	-10.98	107.14	-38.89
Forging Machines	-53.33	-43.08	-55.32	-8.07	-43.85	-35.01
Other Metal Forming	-23.57	15.91	-4.62	19.59	-50.92	19.67
TOTAL	-7.67	9.45	-5.06	5.67	32.41	-7.04

U.S. EXPORTS
Metal Cutting Machine Tools - August 90

RELEASED: October 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	46	4190	4	1160
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	56	9619	2	369
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	14	2993	3	841
100035	Horiz. mach. ctrs., ATC	39	10736	0	0
100045	Mach. ctrs., n.e.c.	168	18813	11	1111
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	7	11259	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	20	4651	2	314
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	219	16794	23	1775
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	43	5733	2	208
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	18	5025	3	292
190030	Horiz. engine or toolroom lathes, non-NC	84	1614	6	90
190050	Automatic bar and/or chucking mach., single spindle, non-NC	10	283	3	42
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	35	1711	4	240
190090	Horiz. lathes, n.e.c., non-NC	302	3805	40	789
911060	Vertical turret lathes, multiple spindle, NC	1	63	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	31	6785	12	4858
991050	Vertical turret lathes, non-NC	26	609	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887	9	504
8459100000	Way-type unit head machines	15	2202	0	0
210080	Other drilling machines, NC	70	6199	6	713
290040	Drilling machines, multiple spindle, non-NC	29	1325	6	218
290050	Drilling machines, radial, non-NC	18	152	1	7
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	72	1506	6	278
290090	Drilling machines, n.e.c., non-NC	550	3482	79	443
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	13	781	1	106
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	0	0
400040	Boring machines, vertical, NC	4	1824	1	235
400050	Boring machines, vertical, non-NC	34	1148	3	638
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	23	942	3	45
510080	Milling machines, knee type, NC	15	1181	0	0
590030	Milling machines, knee type, non-NC	74	2574	16	679
610080	Milling machines, excl. knee type, n.e.c., NC	42	14914	5	1121
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	141	5111	7	77
700020	Threading or tapping machines, n.e.c., NC	26	1203	5	323
700080	Threading or tapping machines, n.e.c., non-NC	302	3056	34	377
8460110080	Flat surface grinding mach., NC	51	6439	9	2263
190010	Flat surface grinding mach., recip.-table type, non-NC	38	607	9	42
190050	Flat surface grinding mach., n.e.c., non-NC	25	4474	2	613
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	74	22098	16	4732
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	35	5114	13	1792
290030	Grinding mach., internal cylindrical, non-NC	32	2678	5	139
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	242	9918	28	942
310080	Sharpening machines (tool & cutter grinding), NC	35	3791	6	867
390050	Sharpening machines (tool & cutter grinding), non-NC	699	11148	80	546
400060	Honing or lapping machines, NC	1	492	0	0
400080	Honing or lapping machines, non-NC	473	9792	64	924
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	767	12036	92	1209
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	213	5935	7	305
200010	Shaping or slotting machines, NC	8	208	5	120
200090	Shaping or slotting machines, non-NC	25	613	0	0
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	19	1292	1	48
401050	Gear hobbers	20	2506	0	0
401070	Gear shapers	25	4911	0	0
401090	Gear cutting machines, n.e.c.	66	24651	4	2246
405060	Gear grinding or finishing machines	48	3627	0	0
500050	Sawing or cutting-off machines, NC	98	3475	6	362
500090	Sawing or cutting-off machines, non-NC	957	12382	88	928
9000000001	Metal cutting machine tools, n.e.c.	915	18794	82	2238
9800000001	Used or rebuilt machine tools	3361	42646	455	5150
9900000001	Machine tools valued at less than $2,500	24595	15654	2731	2115
	Cutting Total			4000	45432
	Y-T-D Cutting Total	35560	401626		
	NC Y-T-D Cutting Total*	1257	173902		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	287
8457100015	0	0	0	0	0	0	0	0	2	369
100025	0	0	0	0	0	0	0	0	2	483
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	3	164
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	213
110030	0	0	0	0	5	410	0	0	0	0
110050	0	0	0	0	2	208	0	0	0	0
110090	0	0	0	0	0	0	0	0	3	292
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	3	36	0	0	5	85
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	32
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	46
290050	0	0	0	0	0	0	0	0	1	7
290070	0	0	0	0	0	0	0	0	3	68
290090	8	32	0	0	0	0	0	0	18	128
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	235
400050	0	0	0	0	0	0	2	628	1	10
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	15
510080	0	0	0	0	0	0	0	0	0	0
590030	4	369	0	0	0	0	0	0	2	59
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	6
700020	0	0	0	0	1	23	0	0	1	214
700080	0	0	0	0	1	61	0	0	10	98
8460110080	3	2094	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	255	0	0	0	0	0	0	1	465
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	23
290050	0	0	0	0	0	0	0	0	6	197
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	28	170
400060	0	0	0	0	0	0	0	0	0	0
400080	4	18	0	0	0	0	0	0	8	157
900060	0	0	0	0	0	0	0	0	0	0
900080	4	28	0	0	2	18	0	0	19	155
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	11	0	0	0	0	2	171	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	1	202	0	0	5	161
500090	2	40	0	0	0	0	0	0	13	158
9000000001	1	8	0	0	0	0	6	70	26	207
9800000001	7	239	0	0	0	0	2	42	55	908
9900000001	74	90	46	30	0	0	24	15	285	386
Month Tot	109	3182	46	30	15	957	36	925	506	5798
Y-T-D Tot	1341	13443	133	227	390	16464	525	10465	4314	84259
NC YTD Tot*	18	7137	1	23	130	14742	13	2216	288	46568

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	447
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	0	0	0	0	7	39
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	10	4145	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	174	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	10	39
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	164	0	0	0	0	0	0	1	231
290010	4	1509	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	45	2	37	1	22	0	0	1	19
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	5	29
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	2	27	0	0	0	0	2	15
9000000001	0	0	0	0	4	100	2	10	1	4
9800000001	0	0	2	17	53	397	0	0	1	24
9900000001	2	3	8	5	34	31	19	18	12	8
Month Tot	13	1901	14	86	102	4695	21	28	41	856
Y-T-D Tot	178	14153	800	6251	680	15371	93	166	1063	12483
NC YTD Tot*	32	8152	44	2999	20	7176	0	0	48	4123

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	830	0	0	0	0	1	43	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	1	358	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	1	63	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	101	0	0
110030	1	102	0	0	0	0	1	106	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	18	0	0	0	0	1	26	0	0
190050	1	6	0	0	0	0	1	7	0	0
190070	0	0	2	86	0	0	0	0	0	0
190090	0	0	0	0	0	0	12	555	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	623	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	3	243	0	0	1	125	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	191	0	0
290040	0	0	0	0	0	0	1	22	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	49	223	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	30	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	3	99	1	20	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	37	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	42	0	0	5	116	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	2	6	0	0	0	0	0	0	0	0
190050	1	556	0	0	0	0	1	57	0	0
210080	8	1742	0	0	0	0	3	1547	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	128	0	0	0	0	9	98	0	0
310080	2	749	2	72	0	0	0	0	0	0
390050	5	30	13	87	1	6	2	56	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	6	0	0	0	0	5	103
900060	0	0	0	0	0	0	0	0	0	0
900080	12	127	2	33	0	0	14	116	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	2	116	0	0	1	3	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	4	2246	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	44	2	32	0	0	9	182	32	169
9000000001	5	396	0	0	4	800	17	382	0	0
9800000001	8	111	121	1242	0	0	156	1435	4	3
9900000001	55	56	56	28	45	67	827	497	33	68
Month Tot	116	7147	207	2392	53	972	1122	6661	74	343
Y-T-D Tot	2863	26989	1289	33989	374	2151	6995	38403	398	4051
NC YTD Tot*	76	8908	55	10149	2	131	142	11002	9	860

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	73	0	0
190090	1	11	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	25	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	29	0	0
610080	1	682	0	0	0	0	1	105	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	87	0	0
700080	1	3	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	36	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	5	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	4	0	0	10	152	0	0	4	24
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	18	5	61	10	105
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	3	48	0	0	1	14	2	13	0	0
9800000001	3	120	1	35	4	17	0	0	0	0
9900000001	138	39	14	8	50	31	21	24	48	73
Month Tot	148	907	15	43	73	390	37	522	62	202
Y-T-D Tot	1084	6076	609	4460	837	4506	533	8747	241	1388
NC YTD Tot*	14	1632	24	998	4	1182	23	5381	2	122

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	4	288	0	0	2	149	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	14	993	0	0	0	0	1	57	1	106
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	21	0	0	1	21	0	0	1	4
190050	1	28	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	80	0	0
190090	2	24	0	0	0	0	5	19	4	13
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	3	47	0	0	0	0	1	33	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	269	0	0	0	0	1	79	0	0
290040	0	0	0	0	0	0	0	0	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	3	211	0	0	0	0	0	0	0	0
290090	2	51	0	0	0	0	0	0	2	8
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	106	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	45	0	0	0	0	0	0	2	58
610080	0	0	0	0	3	334	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	28	1	6
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	3	8	0	0	3	9
8460110080	0	0	0	0	0	0	2	55	4	114
190010	0	0	0	0	0	0	1	10	6	26
190050	0	0	0	0	0	0	0	0	0	0
210080	1	328	0	0	0	0	0	0	0	0
290010	3	150	0	0	0	0	0	0	0	0
290030	2	69	0	0	0	0	2	48	0	0
290050	1	103	0	0	0	0	10	380	0	0
310080	0	0	0	0	0	0	0	0	2	47
390050	0	0	0	0	0	0	30	193	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	3	0	0	0	0	20	301	4	33
900060	0	0	0	0	0	0	0	0	0	0
900080	6	192	0	0	1	50	4	205	6	72
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	4	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	5	120	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	52	0	0	0	0	2	34	11	175
9000000001	4	43	0	0	4	42	0	0	2	100
9800000001	14	170	0	0	3	222	4	14	17	154
9900000001	256	150	0	0	6	4	283	97	395	389
Month Tot	328	3240	0	0	23	830	374	1860	465	1464
Y-T-D Tot	3131	35758	23	3707	520	4702	1931	25227	5215	28189
NC YTD Tot*	164	23418	0	0	11	898	42	5710	95	10373

Please see notes on last page of the metal forming section.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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RELEASED: October 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	235	7260	17	290
8462100030	Headers and upsetters, including cold headers	41	14209	5	2493
100050	Forging or die stamping machines, and hammers, n.e.c.	234	20675	22	3058
210080	Bending, folding, straight. or flat. mach., incl presses, NC	220	19588	30	4683
290030	Press brakes, non-NC	124	2816	14	106
290040	Bending rolls, non-NC	57	1335	0	0
290050	Bending, folding, straight., or flat., n.e.c., non-NC	838	20508	225	4637
310080	Shearing machines, NC	60	5692	8	462
390050	Shearing machines, non-NC	248	5739	25	654
410080	Punching or notching mach., incl. comb. punch & shear, NC	124	18073	9	568
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	624	15978	37	564
910060	Hydraulic presses, NC	49	3754	6	781
910090	Hydraulic presses, non-NC	458	18768	28	334
990030	Presses, n.e.c., NC	111	9949	5	207
990040	Presses, mechanical, non-NC	70	7364	10	417
990060	Presses, n.e.c., non-NC	884	28814	84	3135
8463100080	Draw benches for bars, tubes, profiles, wire or the like	144	3704	38	790
200080	Thread rolling machines	39	1789	11	311
300080	Machines for working wire	513	15424	60	1462
900080	Metal forming machine tools, n.e.c.	1240	37755	107	3221
9800000002	Used or rebuilt machine tools	2455	43471	388	6323
9900000002	Machine tools valued at less than $2,500	9672	7281	1289	1023
	Forming Total			2418	35522
	Y-T-D Forming Total	18440	309945		
	NC Y-T-D Forming Total	564	57055		
	Cutting and Forming Totals:				
	Monthly Total			6418	80954
	Y-T-D Total	54000	711570		
	NC Y-T-D Total*	1821	230957		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	474382	0	57570
2000000000	Parts for working rubber or plastics - heading 8477	0	188403	0	20330
2710003070	Quenching or cutting oils	0	16614	0	701
8428900010	Industrial robots for lifting, handling, loading or unload	248	4837	11	596
8431390090	Parts industrial robots, handling and loading - heading 8428	0	48496	0	5873
8456100000	Laser, light or photon beam for working any material	628	31770	142	6203
200000	Ultrasonic process for working any material	63	1663	1	13
8477106010	Injection molding mach., for rubber or oth. thermosetting	212	9467	90	1324
106070	Injection molding mach., for thermoplastics	274	34368	33	3220
200010	Extruders for rubber or other thermosetting materials	243	9447	12	462
200050	Extruders for processing thermoplastics	616	28021	111	3842
300000	Blow molding machines	449	34183	69	6858
400000	Vacuum-molding and other thermoforming machines	4523	11398	62	2889
510010	Machines for molding or retreading pneumatic tires	609	12283	42	890
510090	Machines for molding or otherwise forming inner tubes	282	26168	40	2163
590000	Machines for molding or otherwise forming n.e.c.	885	16306	110	2197
800000	Machines for working rubber or plastics n.e.c.	3021	76011	645	15322
8479899040	Industrial robots, n.e.c.	4292	40028	823	6237
908040	Industrial robot parts	0	20418	0	1713
8537100030	Numerical controls for controlling machine tools	1421	21077	140	2532
9024100000	Machines and appliances for testing metals	0	46896	0	4223
9031100000	Machines for balancing mechanical parts	0	20090	0	2189
300000	Profile projectors	0	5660	0	195
9032810040	Industrial process control instr., hydraulic or pneumatic	424870	30048	36015	4187

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	84
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	51	0	0	2	158
210080	1	33	0	0	0	0	0	0	9	809
290030	0	0	0	0	0	0	0	0	12	56
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	15	31	828
310080	0	0	0	0	0	0	0	0	2	107
390050	0	0	0	0	6	92	0	0	6	137
410080	0	0	0	0	0	0	0	0	0	0
490050	4	26	0	0	0	0	2	30	13	117
910060	0	0	0	0	0	0	0	0	3	704
910090	0	0	0	0	0	0	0	0	2	101
990030	0	0	0	0	0	0	0	0	3	45
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	3	733	5	71
100080	0	0	0	0	0	0	0	0	3	329
200080	0	0	0	0	0	0	0	0	9	207
300080	0	0	1	13	0	0	2	50	1	17
900080	2	51	8	363	0	0	1	173	19	540
9800000002	2	36	0	0	0	0	1	24	55	934
9900000002	79	8	12	11	10	11	9	8	203	197
Month Tot	88	154	21	386	17	154	20	1033	379	5443
Y-T-D Tot	401	3915	59	2109	532	2311	442	5103	2951	45815
NC YTD Tot	26	1908	0	0	0	0	8	501	113	14201
C&F Month	197	3337	67	416	32	1111	56	1959	885	11240
C&F Y-T-D	1742	17359	192	2336	922	18775	967	15567	7265	130074
C&F NC YTD*	44	9046	1	23	130	14742	21	2717	401	60769

Other Manufacturing Technology

1000000000	0	937	0	145	0	443	0	946	0	11548
2000000000	0	646	0	32	0	147	0	886	0	5204
2710003070	0	26	0	0	0	9	0	0	0	102
8428900010	1	16	0	0	0	0	0	0	6	546
8431390090	0	733	0	0	0	148	0	22	0	1607
8456100000	0	0	0	0	0	0	0	0	1	22
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	75	550	0	0
106070	0	0	0	0	0	0	0	0	8	1256
200010	0	0	0	0	0	0	0	0	4	123
200050	0	0	0	0	0	0	0	0	20	489
300000	1	580	0	0	0	0	0	0	5	1345
400000	1	5	0	0	0	0	0	0	3	813
510010	1	11	0	0	0	0	1	23	3	160
510090	0	0	0	0	0	0	0	0	0	0
590000	2	11	0	0	0	0	0	0	3	133
800000	13	80	0	0	3	140	4	3	75	2320
8479899040	0	0	0	0	0	0	0	0	609	4778
908040	0	17	0	0	0	0	0	4	0	865
8537100030	1	17	0	0	0	0	1	17	16	176
9024100000	0	96	0	44	0	61	0	149	0	542
9031100000	0	9	0	0	0	0	0	0	0	978
300000	0	0	0	0	0	0	0	0	0	4
9032810040	2501	182	233	12	303	17	0	0	2321	182

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	1	85	0	0	0	0	0	0
100050	1	166	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	320	0	0	0	0	148	2062	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	12	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	22
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	1	24	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	65
900080	0	0	0	0	0	0	0	0	2	589
9800000002	0	0	23	419	0	0	28	31	25	52
9900000002	0	0	9	7	21	18	0	0	10	10
Month Tot	3	497	34	535	21	18	176	2093	40	738
Y-T-D Tot	334	11376	447	11805	347	5737	195	4339	247	6645
NC YTD Tot	3	2629	36	4031	0	0	3	576	8	772
C&F Month	16	2399	48	621	123	4713	197	2122	81	1594
C&F Y-T-D	512	25529	1247	18056	1027	21108	288	4506	1310	19128
C&F NC YTD*	35	10781	80	7030	20	7176	3	576	56	4895

Other Manufacturing Technology

1000000000	0	2898	0	1498	0	251	0	127	0	1154
2000000000	0	796	0	1065	0	277	0	41	0	462
2710003070	0	0	0	39	0	0	0	8	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	89	0	286	0	45	0	21
8456100000	0	0	17	1086	0	0	0	0	20	460
200000	0	0	1	13	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	1	245	30	2123	0	0	0	0
400000	8	159	2	406	0	0	0	0	0	0
510010	0	0	1	50	0	0	0	0	1	33
510090	0	0	0	0	0	0	0	0	0	0
590000	1	150	3	44	5	34	0	0	1	19
800000	134	5362	28	434	0	0	1	32	4	29
8479899040	0	0	61	369	2	10	0	0	13	76
908040	0	0	0	31	0	0	0	0	0	23
8537100030	1	16	16	311	0	0	0	0	11	100
9024100000	0	17	0	92	0	29	0	0	0	33
9031100000	0	0	0	26	0	292	0	0	0	0
300000	0	0	0	3	0	0	0	0	0	0
9032810040	12	14	1389	1805	147	20	0	0	999	94

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	15	0	0
8462100030	3	2288	0	0	0	0	0	0	0	0
100050	2	1607	10	603	0	0	2	273	0	0
210080	0	0	4	167	2	70	5	204	4	185
290030	2	50	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	60	4	608	1	13	12	115	0	0
310080	1	42	0	0	0	0	2	137	2	124
390050	0	0	0	0	0	0	6	312	0	0
410080	0	0	0	0	0	0	6	226	1	191
490050	2	15	0	0	0	0	3	40	4	48
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	16	125	0	0
990030	0	0	0	0	0	0	1	140	0	0
990040	0	0	0	0	0	0	2	44	0	0
990060	4	39	2	1110	0	0	26	308	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	15	0	0
300080	0	0	2	79	1	14	11	285	1	12
900080	1	14	7	126	1	29	20	214	19	462
9800000002	0	0	5	1465	0	0	124	1290	0	0
9900000002	158	97	38	23	0	0	189	184	43	35
Month Tot	177	4212	72	4181	5	126	428	3927	74	1056
Y-T-D Tot	1352	26141	550	27029	84	4038	4052	37132	247	5715
NC YTD Tot	25	3135	38	3610	13	723	88	5228	39	3386
C&F Month	293	11358	279	6573	58	1098	1550	10588	148	1399
C&F Y-T-D	4215	53130	1839	61018	458	6188	11047	75535	645	9766
C&F NC YTD*	101	12043	93	13759	15	854	230	16231	48	4245

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	5755	0	1937	0	523	0	4882	0	804
2000000000	0	733	0	185	0	63	0	2428	0	365
2710003070	0	15	0	14	0	5	0	58	0	0
8428900010	0	0	0	0	0	0	1	3	0	0
8431390090	0	138	0	7	0	34	0	156	0	44
8456100000	61	3005	1	13	0	0	0	0	1	150
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	474	0	0
106070	0	0	0	0	0	0	10	1058	0	0
200010	0	0	1	170	0	0	3	111	0	0
200050	13	453	0	0	0	0	2	33	0	0
300000	0	0	0	0	0	0	7	1391	0	0
400000	14	53	0	0	0	0	28	358	0	0
510010	0	0	0	0	0	0	18	258	0	0
510090	1	13	0	0	0	0	0	0	0	0
590000	23	363	3	778	0	0	46	150	0	0
800000	26	386	13	205	24	381	48	637	16	77
8479899040	5	25	1	9	1	63	10	60	0	0
908040	0	204	0	0	0	0	0	132	0	6
8537100030	0	0	1	14	3	43	13	722	7	68
9024100000	0	940	0	134	0	9	0	112	0	10
9031100000	0	71	0	132	0	6	0	236	0	25
300000	0	32	0	0	0	0	0	13	0	0
9032810040	325	104	693	52	0	0	1237	141	7996	425

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	27	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	2	111	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	108	1	19	2	56	0	0	0	0
310080	0	0	0	0	0	0	1	53	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	11	0	0	0	0	0	0	0	0
910060	0	0	0	0	1	35	0	0	1	30
910090	0	0	7	68	1	7	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
99004[illegible]	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	181	0	0
8463100080	0	0	0	0	3	87	0	0	16	154
200080	0	0	0	0	0	0	0	0	0	0
300080	1	4	3	84	0	0	4	112	0	0
900080	4	60	0	0	0	0	1	13	0	0
9800000002	2	50	0	0	0	0	0	0	2	169
9900000002	0	31	0	0	8	7	40	33	40	18
Month Tot	11	263	11	171	15	192	50	530	59	371
Y-T-D Tot	348	4279	125	4640	231	1688	313	10170	156	3608
NC YTD Tot	5	584	25	499	2	65	22	1584	2	98
C&F Month	159	1170	26	213	88	583	87	1052	121	573
C&F Y-T-D	1432	10356	734	9100	1068	6193	846	18916	397	4996
C&F NC YTD*	19	2215	49	1498	6	1247	45	6965	4	220

Other Manufacturing Technology

1000000000	0	1151	0	386	0	440	0	709	0	591
2000000000	0	99	0	683	0	50	0	215	0	846
2710003070	0	69	0	0	0	0	0	115	0	50
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	113	0	11	0	32	0	12	0	18
8456100000	0	0	0	0	1	28	7	396	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	4	300	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	58	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	70	0	0	0	0	8	186	1	1569
300000	0	0	0	0	1	147	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	1	26	3	78	0	0	0	0	0	0
510090	0	0	0	0	7	7	0	0	0	0
590000	0	0	2	38	3	42	0	0	0	0
800000	31	155	2	19	0	0	1	245	6	239
8479899040	11	79	0	0	51	256	0	0	0	0
908040	0	0	0	14	0	17	0	3	0	0
8537100030	6	84	1	11	0	0	1	16	3	24
9024100000	0	113	0	177	0	33	0	87	0	0
9031100000	0	25	0	0	0	49	0	48	0	3
300000	0	9	0	0	0	39	0	0	0	0
9032810040	2921	70	1043	57	0	0	288	14	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	33	0	0	0	0	5	50	7	82
8462100030	0	0	0	0	0	0	1	120	0	0
100050	0	0	0	0	1	47	0	0	1	41
210080	0	0	0	0	0	0	0	0	5	3216
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	13	0	0	0	0	4	86	11	334
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	114
410080	1	109	0	0	0	0	0	0	1	42
490050	2	37	0	0	0	0	0	0	5	229
910060	1	12	0	0	0	0	0	0	0	0
910090	1	28	0	0	0	0	0	0	1	6
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	8	373
990060	1	14	0	0	0	0	5	284	37	394
8463100080	7	128	0	0	1	10	0	0	7	58
200080	0	0	0	0	0	0	0	0	1	89
300080	15	370	0	0	0	0	9	204	7	153
900080	2	58	0	0	0	0	1	7	19	523
9800000002	49	271	0	0	0	0	11	250	61	1330
9900000002	86	73	0	0	4	4	45	96	285	154
Month Tot	167	1146	0	0	6	60	81	1097	463	7138
Y-T-D Tot	1611	27238	19	695	173	1028	1107	17110	2117	40280
NC YTD Tot	37	3913	1	136	3	79	11	1239	56	8158
C&F Month	495	4386	0	0	29	890	455	2958	928	8602
C&F Y-T-D	4742	62996	42	4402	693	5730	3038	42337	7332	68469
C&F NC YTD*	201	27331	1	136	14	976	53	6949	151	18531
Other Manufacturing Technology										
1000000000	0	6059	0	4	0	1135	0	3786	0	9461
2000000000	0	598	0	0	0	413	0	1156	0	2939
2710003070	0	0	0	0	0	0	0	0	0	190
8428900010	0	0	0	0	0	0	1	14	2	16
8431390090	0	299	0	0	0	167	0	19	0	1871
8456100000	7	350	0	0	0	0	11	367	15	326
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	4	257	0	0	0	0	0	0	10	592
200010	1	16	0	0	0	0	2	17	1	25
200050	3	24	0	0	0	0	33	306	29	711
300000	1	418	0	0	0	0	0	0	23	609
400000	4	5	0	0	0	0	1	1069	1	20
510010	1	8	0	0	0	0	0	0	12	244
510090	0	0	0	0	0	0	0	0	32	2143
590000	5	79	0	0	0	0	12	205	1	150
800000	55	1320	0	0	0	0	45	81	116	3177
8479899040	0	0	0	0	0	0	25	314	34	200
908040	0	99	0	0	0	0	0	186	0	111
8537100030	19	326	0	0	0	0	17	247	23	341
9024100000	0	570	0	0	0	8	0	481	0	486
9031100000	0	19	0	0	0	18	0	144	0	107
300000	0	3	0	0	0	0	0	79	0	14
9032810040	4617	380	0	0	1087	66	3190	213	4713	338

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	1	4	0	0	1	4
Denmark	0	0	0	0	0	0
East Germany	0	0	0	0	0	0
Finland	6	9	4	233	10	242
Greece	0	0	7	114	7	114
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	5	179	1	25	6	204
Luxembourg	0	0	0	0	0	0
Norway	4	24	0	0	4	24
Poland	0	0	0	0	0	0
Portugal	1	3	2	102	3	104
Romania	0	0	0	0	0	0
Sweden	65	37	40	408	105	445
Turkey	9	61	0	0	9	61
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1071	8122	514	6357	1585	14479
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	3	135	3	135
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	41	22	16	28	57	51
Dominican Rep	8	37	38	914	46	951
El Salvador	35	28	0	0	35	28
Guatemala	0	0	0	0	0	0
Haiti	0	0	0	0	0	0
Honduras	6	3	0	0	6	3
Jamaica	0	0	0	0	0	0
Panama	1	19	0	0	1	19
Trinidad	11	7	0	0	11	7
Oth N & C Am.	1	3	11	3	12	6
TOTAL	1731	12579	875	10450	2606	23028
SOUTH AMERICA						
Argentina	8	5	0	0	8	5
Bolivia	0	0	0	0	0	0
Chile	21	143	24	451	45	594
Colombia	14	67	42	181	56	248
Ecuador	6	146	7	82	13	228
Paraguay	0	0	0	0	0	0
Peru	5	30	12	107	17	137
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	113	2147	111	1914	224	4061
OCEANIA						
New Zealand	0	0	25	310	25	310
Oth Oceania	0	0	0	0	0	0
TOTAL	109	3182	113	464	222	3646

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	148	305	138	561	286	865
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	21	35	2	30	23	65
Jordan	0	0	1	10	1	10
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	4	0	0	1	4
Philippines	11	33	45	220	56	254
Qatar	0	0	0	0	0	0
Saudi Arabia	11	57	3	3	14	60
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	1	4	13	109	14	113
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	952	19205	796	13240	1748	32445
AFRICA						
Algeria	0	0	1	3050	1	3050
Botswana	0	0	0	0	0	0
Egypt	4	64	0	0	4	64
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	13	123	7	6	20	129
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	4	6	1	42	5	48
Oth Africa	3	4	0	0	3	4
TOTAL	24	197	9	3098	33	3296

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

RELEASED: October 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	607	40315	83	6996
301050	Electro-discharge machines, n.e.c., NC	254	14445	66	3259
301070	Electro-discharge machines, n.e.c., non-NC	263	6216	29	1421
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1515	119182	138	11685
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	91	18463	10	1977
100035	Horiz. mach. ctrs., ATC	452	101447	49	11890
100045	Mach. ctrs., n.e.c.	178	49699	42	15229
200010	Unit construction mach. (single station transfer), NC	14	1447	0	0
200090	Unit construction mach. (single station transfer), non-NC	2	517	1	155
300010	Multi-station transfer machines, NC	35	20717	5	10082
300090	Multi-station transfer machines, non-NC	69	27820	9	4592
8458110010	Horiz. lathes, multiple spindle, NC	206	35923	37	8046
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1628	114676	172	12361
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	397	56610	61	8743
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	40	12268	4	1127
190030	Horiz. engine or toolroom lathes, non-NC	2838	30427	257	2675
190050	Automatic bar and/or chucking mach., single spindle, non-NC	631	12117	17	334
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	95	7676	6	961
190090	Horiz. lathes, n.e.c., non-NC	1199	11346	127	1462
911060	Vertical turret lathes, multiple spindle, NC	21	3751	1	198
911080	Vertical turret lathes, n.e.c., NC	43	7873	16	974
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	73	7269	22	1978
991050	Vertical turret lathes, non-NC	69	3769	3	865
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	778	15742	88	2044
8459100000	Way-type unit head machines	4	1610	2	122
210080	Other drilling machines, NC	221	15257	24	2789
290040	Drilling machines, multiple spindle, non-NC	57	1658	1	319
290050	Drilling machines, radial, non-NC	337	2451	33	209
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729	16	99
290090	Drilling machines, n.e.c., non-NC	378	12204	56	1319
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767	1	104
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	57	8497	13	1855
310070	Boring-milling mach., n.e.c., NC	27	2097	5	1266
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000	1	137
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	85	4911	11	669
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	37	1475	1	382
400070	Boring machines, n.e.c., NC	27	3282	0	0
400080	Boring machines, n.e.c., non-NC	144	4876	8	184
510080	Milling machines, knee type, NC	417	6760	33	848
590030	Milling machines, knee type, non-NC	2380	17073	242	2278
610080	Milling machines, excl. knee type, n.e.c., NC	399	16123	36	1788
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	41	2107	2	66
690090	Milling machines, n.e.c., non-NC	522	15689	35	2810
700020	Threading or tapping machines, n.e.c., NC	123	6368	22	1150
700080	Threading or tapping machines, n.e.c., non-NC	134	3893	28	1103
8460110080	Flat surface grinding mach., NC	104	9200	14	1408
190010	Flat surface grinding mach., recip.-table type, non-NC	779	9883	125	1443
190050	Flat surface grinding mach., n.e.c., non-NC	1370	13319	221	1450
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	348	61427	52	10116
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	326	11724	29	884
290030	Grinding mach., internal cylindrical, non-NC	153	8361	9	838
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	840	33695	75	7096
310080	Sharpening machines (tool & cutter grinding), NC	167	4635	34	1418
390050	Sharpening machines (tool & cutter grinding), non-NC	574	6670	58	684
300060	Honing or lapping machines, NC	29	3921	3	563
400080	Honing or lapping machines, non-NC	179	7065	37	2113
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	34	1615	5	128
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1023	29704	159	3691
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	5	13
200010	Shaping or slotting machines, NC	83	2974	15	628
200090	Shaping or slotting machines, non-NC	145	4543	11	1435
300060	Broaching machines, NC	4	7342	1	228
300080	Broaching machines, non-NC	66	3023	8	1402
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	93	7288	7	735
401040	Gear shapers	20	6752	5	3231
401060	Gear cutting machines, n.e.c.	107	561	34	4
405050	Gear grinding or finishing for bevel gears	59	1363	2	472
405070	Gear grinding or finishing machines, n.e.c.	61	16636	6	3043
500050	Sawing or cutting-off machines, NC	78	4944	16	1154
500090	Sawing or cutting-off machines, non-NC	1477	25085	234	7059
9000000001	Metal cutting machine tools, n.e.c.	249	9698	24	1374
9800000001	Used or rebuilt machine tools	4494	22277	1183	3324
9900000001	Machine tools valued at less than $2,500	590861	62977	66669	7918
	Cutting Total			70854	192403
	Y-T-D Cutting Total	620753	1226624		
	NC Y-T-D Cutting Total	7691	761314		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	2	53	0	0	0	0	2	21
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	623
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	188	1	107
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	25	163	7	77	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	348
190090	0	0	44	241	0	0	3	18	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	59	14	274	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	256
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	4	15	0	0	0	0	6	200
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	717	1	7
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	3	531
310070	0	0	0	0	0	0	1	168	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	19
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	50
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	6	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	3	1	18	3	360
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	3	1	22
8460110080	0	0	0	0	0	0	0	0	2	94
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	11	66	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	18	130	0	0	0	0
290030	0	0	0	0	1	2	0	0	2	533
290050	0	0	0	0	5	27	0	0	7	174
310080	0	0	0	0	1	2	0	0	3	25
390050	0	0	0	0	2	6	0	0	1	41
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	9
900060	0	0	0	0	1	3	0	0	2	51
900080	0	0	0	0	0	0	10	33	5	37
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	0	0
200090	0	0	0	0	4	11	0	0	4	34
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	14
500090	0	0	0	0	21	314	2	70	48	251
9000000001	0	0	0	0	2	300	1	3	2	8
9800000001	1	205	0	0	11	75	0	0	2	2
9900000001	0	0	0	0	134	40	184	256	2063	515
Month Tot	1	205	76	493	221	1117	224	1750	2174	4333
Y-T-D Tot	43	1233	1676	9495	1224	15214	1424	20004	25551	41493
NC YTD Tot	2	110	5	537	32	3260	75	8668	104	12882

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	74	5637	0	0	0	0	0	0	0	0
301050	28	1713	0	0	0	0	1	31	0	0
301070	0	0	0	0	0	0	1	70	0	0
8457100015	80	7896	11	628	5	327	0	0	0	0
100025	7	1057	0	0	0	0	0	0	0	0
100035	41	9664	0	0	0	0	2	270	0	0
100045	2	928	0	0	0	0	0	0	1	130
200010	0	0	0	0	0	0	0	0	0	0
200090	1	155	0	0	0	0	0	0	0	0
300010	5	10082	0	0	0	0	0	0	0	0
300090	3	881	0	0	0	0	0	0	0	0
8458110010	24	4048	0	0	0	0	0	0	0	0
110030	143	10729	3	150	0	0	0	0	0	0
110050	44	6640	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	35	20	253	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	6	464	0	0	0	0	0	0	0	0
911060	1	198	0	0	0	0	0	0	0	0
911080	1	642	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	17	1652	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	7	444	17	885	0	0	0	0	0	0
8459100000	1	8	0	0	0	0	0	0	0	0
210080	16	2119	1	73	0	0	0	0	0	0
290040	1	319	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	6	0	0
290070	0	0	0	0	0	0	12	69	0	0
290090	0	0	0	0	0	0	46	263	0	0
310010	0	0	0	0	0	0	1	104	0	0
310040	1	282	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	214	0	0
320040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	382	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	134	0	0	0	0	0	0	0	0
510080	2	405	0	0	0	0	0	0	0	0
590030	6	121	0	0	0	0	131	1269	0	0
610080	4	336	0	0	3	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	1	86	0	0	0	0	0	0	0	0
700020	20	1048	0	0	0	0	1	59	0	0
700080	13	565	0	0	0	0	1	51	2	60
8460110080	2	208	0	0	0	0	0	0	0	0
190010	1	131	0	0	40	401	0	0	0	0
190050	10	27	0	0	0	0	1	34	0	0
210080	29	4686	0	0	0	0	0	0	0	0
290010	1	209	0	0	0	0	0	0	0	0
290030	2	185	0	0	0	0	0	0	0	0
290050	5	960	0	0	0	0	3	391	5	2266
310080	5	243	0	0	0	0	0	0	0	0
390050	7	169	0	0	0	0	0	0	0	0
400060	1	215	0	0	0	0	0	0	0	0
400080	4	352	0	0	0	0	0	0	0	0
900060	2	75	0	0	0	0	0	0	0	0
900080	56	1827	0	0	0	0	9	918	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	5	214	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	1	228	0	0	0	0	0	0	0	0
300080	1	4	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	42	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	2	18	0	0	0	0	0	0
500050	3	973	0	0	0	0	0	0	0	0
500090	20	712	11	427	0	0	2	43	0	0
9000000001	8	652	0	0	0	0	0	0	0	0
9800000001	1008	1159	0	0	0	0	2	63	103	11
9900000001	7075	917	2215	202	0	0	0	0	114	59
Month Tot	8799	82829	2263	2525	68	1107	215	3854	226	2532
Y-T-D Tot	41733	585437	8625	13689	737	13663	1639	20119	1829	11237
NC YTD Tot	4461	497647	114	7448	132	6828	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – August 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	9	1359	0	0	0	0	0	0	0	0
301050	6	305	6	104	1	29	2	210	22	866
301070	12	1111	15	155	0	0	0	0	1	85
8457100015	0	0	4	189	29	1764	3	449	6	432
100025	0	0	2	420	0	0	1	500	0	0
100035	0	0	1	176	0	0	5	1780	0	0
100045	2	1229	0	0	3	161	26	12424	4	284
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	246	0	0	0	0	4	2842	0	0
8458110010	1	859	0	0	1	199	11	2940	0	0
110030	1	243	9	563	6	329	1	122	9	224
110050	1	87	3	141	1	175	5	1245	2	95
110090	0	0	1	50	0	0	2	501	1	577
190030	1	5	71	536	40	771	3	47	89	787
190050	1	80	15	126	0	0	1	127	0	0
190070	3	596	2	17	0	0	0	0	0	0
190090	0	0	2	74	5	88	2	318	65	259
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	70	0	0	0	0	0	0
991050	1	325	0	0	0	0	2	539	0	0
995090	0	0	0	0	13	276	0	0	41	224
8459100000	0	0	0	0	1	114	0	0	0	0
210080	0	0	0	0	1	145	6	452	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	3	27	0	0	0	0	29	176
290070	0	0	0	0	0	0	3	20	1	10
290090	0	0	0	0	2	13	3	319	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	1	398	0	0	0	0	5	612	3	32
310070	0	0	0	0	0	0	1	483	2	400
390040	0	0	0	0	0	0	0	0	1	137
390050	0	0	0	0	0	0	5	419	5	232
300040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	25	205	6	238	0	0	0	0
590030	0	0	84	541	1	74	3	153	16	113
610080	0	0	7	111	0	0	2	980	20	236
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	19	0	0
690090	3	765	0	0	0	0	14	1521	12	57
700020	0	0	0	0	0	0	1	42	0	0
700080	4	11	0	0	0	0	2	324	4	67
8460110060	3	462	0	0	1	65	6	578	0	0
190010	0	0	78	530	0	0	6	380	0	0
190050	3	242	165	661	8	112	1	3	22	305
210080	3	981	1	57	1	1293	18	3099	0	0
290010	4	332	1	62	1	33	1	95	3	24
290030	1	45	0	0	0	0	0	0	3	73
290050	5	401	3	14	14	152	22	2613	6	99
310080	5	33	0	0	1	65	17	853	2	198
390050	2	16	13	75	10	87	18	234	5	56
400060	0	0	0	0	0	0	2	348	0	0
400080	1	34	0	0	12	103	7	1406	11	209
900060	0	0	0	0	0	0	0	0	0	0
900080	3	120	5	27	16	108	31	456	23	158
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	9	393
200090	0	0	0	0	0	0	3	1390	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	7	1398	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	16	5	677	0	0
401040	0	0	0	0	0	0	5	3231	0	0
401060	33	3	0	0	1	1	0	0	0	0
405050	0	0	0	0	0	0	2	472	0	0
405070	1	782	0	0	0	0	2	1561	1	682
500050	0	0	0	0	0	0	12	166	0	0
500090	3	78	9	48	17	203	58	4576	43	338
9000000001	1	176	0	0	0	0	3	183	7	52
9800000001	2	40	1	30	23	789	16	868	14	82
9900000001	142	31	52772	4771	32	42	291	269	1647	816
Month Tot	264	11408	53299	9780	248	7445	647	54245	2129	8780
Y-T-D Tot	1586	62418	450434	86794	4321	69066	10323	224718	69608	52043
NC YTD Tot	298	23783	662	20087	546	45171	752	111933	404	16424

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

RELEASED: October 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	291	17587	14	6118
8462100030	Headers and upsetters, including cold headers	108	9518	8	1147
100050	Forging or die stamping machines, and hammers, n.e.c.	531	31681	34	2678
210080	Bending, folding, straight. or flat. mach., incl presses, NC	395	25315	43	7611
290030	Press brakes, non-NC	225	6233	37	876
290040	Bending rolls, non-NC	75	2014	7	141
290050	Bending, folding, straight., or flat., n.e.c., non-NC	871	29927	129	6468
310080	Shearing machines, NC	49	3697	3	925
390050	Shearing machines, non-NC	428	11545	75	1115
410080	Punching or notching mach., incl. comb. punch & shear, NC	245	26313	27	3585
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	493	8912	58	930
910060	Hydraulic presses, NC	15	13029	3	9658
910090	Hydraulic presses, non-NC	1929	12848	820	2944
990030	Presses, n.e.c., NC	46	3732	0	0
990035	Mechanical transfer presses, non-NC	12	14836	2	5761
990045	Mechanical presses, n.e.c., non-NC	70	3702	5	315
990060	Presses, n.e.c., non-NC	540	23153	72	2353
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	2155	0	0
200080	Thread rolling machines	61	3275	2	106
300080	Machines for working wire	1013	48285	120	5379
900080	Metal forming machine tools, n.e.c.	453	19924	91	1424
9800000002	Used or rebuilt machine tools	901	13019	152	1398
9900000002	Machine tools valued at less than $2,500	11417	4080	1935	558
	Forming Total			3637	61490
	Y-T-D Forming Total	20207	334779		
	NC Y-T-D Forming Total	750	72085		
	Cutting and Forming Totals:				
	Monthly Total			74491	253893
	Y-T-D Total	640960	1561403		
	NC Y-T-D Total	8441	833399		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	374313	0	45898
2000000000	Parts for working rubber or plastics - heading 8477	0	223713	0	26911
2710003070	Quenching or cutting oils	0	281	0	14
8428900010	Industrial robots for lifting, handling, loading or unload	1377	26183	33	1012
8431390080	Parts industrial robots, handling and loading - heading 8428	0	65750	0	9019
8456101010	Laser, light or photon beam for working metal, NC	123	23068	11	2101
101020	Laser, light or photon beam for working metal, non-NC	60	3566	10	762
105000	Laser, light or photon beam for other materials	104	7455	6	3837
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	7	118	1	36
205000	Ultrasonic processes for working other materials	56	195	50	2
8477103000	Injection molding mach., for manufacturing shoes	101	2089	1	24
106010	Injection molding mach., for rubber or oth. thermosetting	546	45732	57	6655
106050	Injection molding mach., for thermoplastics	1744	168710	211	24611
200010	Extruders for rubber or other thermosetting materials	164	10717	37	1985
200050	Extruders for processing thermoplastics	734	43952	117	7252
300000	Blow molding machines	254	29213	13	1548
400000	Vacuum-molding and other thermoforming machines	146	5489	22	2549
510010	Machines for molding or retreading pneumatic tires	410	35054	33	3317
510090	Machines for molding or otherwise forming inner tubes	253	10314	5	84
590000	Machines for molding or otherwise forming n.e.c.	807	41373	236	3346
800000	Machines for working rubber or plastics n.e.c.	7949	76555	292	14808
8479899040	Industrial robots, n.e.c.	11898	48538	404	5811
908040	Industrial robot parts	0	23790	0	4155
8537100030	Numerical controls for controlling machine tools	8841	31818	442	3266
9024100000	Machines and appliances for testing metals	0	8616	0	1647
9031100000	Machines for balancing mechanical parts	0	9151	0	1508
300000	Profile projectors	0	4407	0	747
9032810020	Industrial process control instr., hydraulic	109751	1579	16097	269
810060	Industrial process control instr., pneumatic	197740	3338	11883	368

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	65	0	0	3	499
8462100030	0	0	0	0	0	0	0	0	1	299
100050	0	0	0	0	0	0	1	13	0	0
210080	0	0	0	0	12	2556	0	0	3	256
290030	0	0	0	0	12	486	0	0	0	0
290040	0	0	0	0	1	3	0	0	3	89
290050	0	0	0	0	22	164	1	174	25	1170
310080	0	0	0	0	0	0	0	0	0	0
390050	7	141	0	0	6	221	0	0	3	12
410080	0	0	0	0	0	0	0	0	1	17
490050	0	0	0	0	2	273	0	0	8	62
910060	0	0	0	0	0	0	0	0	0	0
910090	18	26	0	0	8	559	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	9	256	0	0	9	65
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	7	872	0	0	1	19	2	47	17	1897
900080	0	0	0	0	2	14	3	17	66	849
9800000002	6	148	11	200	50	688	28	83	4	44
9900000002	0	0	0	0	19	18	25	29	106	47
Month Tot	38	1187	11	200	145	5322	60	362	249	5305
Y-T-D Tot	436	17545	11	200	1307	42626	295	2818	1546	31113
NC YTD Tot	38	3210	0	0	40	4011	2	20	56	1599
C&F Month	39	1392	87	693	366	6439	284	2112	2423	9638
C&F Y-T-D	479	18778	1687	9695	2531	57840	1719	22822	27097	72605
C&F NC YTD	40	3320	5	537	72	7271	77	8688	160	14481

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	275	0	150	0	4244	0	806	0	2918
2000000000	0	42	0	5	0	4979	0	4685	0	3189
2710003070	0	0	0	0	0	10	0	0	0	0
8428900010	0	0	0	0	2	12	0	0	1	10
8431390080	0	12	0	20	0	2009	0	95	0	6
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	24
106010	0	0	0	0	2	506	5	579	1	101
106050	0	0	0	0	19	1849	0	0	14	727
200010	0	0	0	0	1	26	0	0	1	13
200050	0	0	0	0	7	156	0	0	5	579
300000	0	0	0	0	0	0	0	0	3	284
400000	0	0	0	0	0	0	0	0	1	109
510010	0	0	0	0	7	316	1	414	2	314
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	21	552	1	238	4	1626
800000	20	54	0	0	13	84	2	251	18	289
8479899040	0	0	0	0	1	2	2	129	1	28
908040	0	0	0	0	0	729	0	88	0	24
8537100030	0	0	0	0	1	2	0	0	0	0
9024100000	0	0	0	0	0	193	0	1	0	114
9031100000	0	0	0	0	0	113	0	3	0	5
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	3	110	0	0	0	0
810060	0	0	0	0	19	5	0	0	330	31

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	3853	1	70	0	0	0	0	0	0
8462100030	7	849	0	0	0	0	0	0	0	0
100050	13	1321	7	321	0	0	0	0	0	0
210080	22	1430	0	0	1	5	0	0	1	2979
290030	1	29	0	0	0	0	0	0	0	0
290040	1	33	0	0	0	0	0	0	0	0
290050	12	783	0	0	0	0	0	0	4	80
310080	1	207	0	0	0	0	0	0	0	0
390050	8	206	0	0	0	0	0	0	0	0
410080	19	2903	0	0	0	0	0	0	0	0
490050	4	25	0	0	0	0	12	203	0	0
910060	1	26	0	0	0	0	0	0	2	9632
910090	8	479	0	0	0	0	0	0	17	226
990030	0	0	0	0	0	0	0	0	0	0
990035	1	5443	0	0	0	0	0	0	0	0
990045	4	306	0	0	0	0	0	0	0	0
990060	9	622	0	0	0	0	0	0	1	4
8463100080	0	0	0	0	0	0	0	0	0	0
200080	1	90	0	0	0	0	1	16	0	0
300080	71	2055	0	0	0	0	0	0	0	0
900080	3	56	0	0	0	0	0	0	2	12
9800000002	4	26	0	0	0	0	13	11	0	0
9900000002	390	118	0	0	0	0	48	38	5	3
Month Tot	582	20860	8	391	1	5	74	268	32	12935
Y-T-D Tot	3376	126763	19	514	79	70	380	3079	476	17838
NC YTD Tot	348	28010	0	0	1	5	0	0	7	13334
C&F Month	9381	103688	2271	2916	69	1112	289	4122	258	15467
C&F Y-T-D	45109	712200	8644	14203	816	13733	2019	23199	2305	29076
C&F NC YTD	4809	525657	114	7448	133	6833	90	2498	21	17370

Other Manufacturing Technology

1000000000	0	12538	0	157	0	540	0	396	0	665
2000000000	0	2099	0	132	0	66	0	108	0	208
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	23	618	0	0	0	0	0	0	0	0
8431390080	0	1473	0	0	0	0	0	20	0	41
8456101010	8	1458	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	2	3829	0	0	0	0	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	35	3962	1	48	0	0	0	0	2	82
106050	85	12358	4	326	2	3	0	0	0	0
200010	25	1526	0	0	0	0	0	0	0	0
200050	1	185	3	272	0	0	0	0	0	0
300000	4	822	0	0	0	0	0	0	0	0
400000	2	207	0	0	0	0	0	0	0	0
510010	17	1559	0	0	0	0	0	0	0	0
510090	2	3	0	0	0	0	0	0	0	0
590000	192	549	0	0	0	0	0	0	0	0
800000	36	8314	0	0	0	0	1	286	13	123
8479899040	250	4607	0	0	0	0	0	0	5	297
908040	0	1067	0	0	0	0	0	0	0	56
8537100030	440	3263	0	0	0	0	0	0	0	0
9024100000	0	569	0	0	0	0	0	0	0	35
9031100000	0	1408	0	0	0	4	0	0	0	0
200000	0	8	0	0	0	0	0	0	0	0
9032810020	0	0	3000	10	0	0	0	0	0	0
2810060	216	15	6000	19	0	0	0	0	1564	168

Note: *Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.*
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	540	0	0	1	11	3	1036	1	43
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	7	5	547	7	470
210080	0	0	0	0	1	28	3	357	0	0
290030	0	0	0	0	0	0	1	4	23	358
290040	0	0	2	16	0	0	0	0	0	0
290050	4	79	0	0	2	90	50	3872	9	57
310080	0	0	0	0	1	15	1	703	0	0
390050	0	0	0	0	29	225	17	235	5	76
410080	2	524	0	0	0	0	5	140	0	0
490050	0	0	8	87	1	8	20	249	3	22
910060	0	0	0	0	0	0	0	0	0	0
910090	1	389	184	114	2	312	3	792	579	48
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	1	318	0	0	0	0
990045	0	0	0	0	0	0	0	0	1	9
990060	1	3	0	0	33	705	6	659	4	39
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	8	11	201	1	17	9	262	0	0
900080	3	276	1	3	6	120	1	13	4	64
9800000002	8	97	2	51	3	26	2	10	21	16
9900000002	513	34	355	137	3	2	51	35	420	98
Month Tot	535	1950	563	608	85	1885	177	8914	1077	1299
Y-T-D Tot	1270	16280	5124	7181	700	9846	1537	48772	3651	10133
NC YTD Tot	21	3446	6	920	7	185	188	13871	36	3473
C&F Month	799	13358	53862	10388	333	9330	824	63158	3206	10080
C&F Y-T-D	2856	78698	455558	93975	5021	78912	11860	273490	73259	62176
C&F NC YTD	319	27229	668	21008	553	45357	940	125804	440	19897

Other Manufacturing Technology

1000000000	0	2863	0	1748	0	3650	0	11615	0	3329
2000000000	0	443	0	257	0	497	0	8524	0	1678
2710003070	0	0	0	0	0	0	0	4	0	0
8428900010	1	191	0	0	0	0	6	182	0	0
8431390080	0	825	0	133	0	2107	0	1327	0	951
8456101010	0	0	0	0	0	0	1	239	2	404
101020	0	0	0	0	0	0	10	762	0	0
105000	0	0	0	0	0	0	1	2	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	1	36	0	0
205000	0	0	0	0	0	0	0	0	50	2
8477103000	0	0	0	0	0	0	0	0	0	0
106010	5	419	0	0	0	0	5	752	1	206
106050	3	410	16	609	1	23	54	6982	13	1326
200010	2	150	1	3	3	143	4	123	0	0
200050	0	0	5	426	18	175	78	5459	0	0
300000	0	0	2	23	0	0	1	392	3	27
400000	0	0	0	0	1	4	17	2225	1	4
510010	0	0	0	0	5	32	0	0	1	682
510090	0	0	0	0	2	7	1	75	0	0
590000	0	0	0	0	10	57	4	313	4	13
800000	0	0	55	302	4	70	120	4789	10	245
8479899040	2	319	0	0	1	2	117	132	25	295
908040	0	127	0	0	0	196	0	1783	0	86
8537100030	0	0	0	0	0	0	0	0	1	2
9024100000	0	0	0	0	0	202	0	444	0	88
9031100000	0	6	0	0	0	13	0	53	0	3
300000	0	393	0	0	0	145	0	156	0	45
9032810020	157	41	0	0	1250	6	0	0	11687	202
810060	0	0	2480	29	1007	4	6	21	261	76

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	185	995	0	0	185	995
Bulgaria	0	0	0	0	0	0
Czechoslovakia	17	314	0	0	17	314
Denmark	110	191	13	55	123	246
East Germany	4	727	0	0	4	727
Finland	1	10	0	0	1	10
Hungary	6	485	0	0	6	485
Ireland	0	0	1	10	1	10
Luxembourg	0	0	0	0	0	0
Netherlands	24	906	221	40	245	946
Norway	0	0	0	0	0	0
Poland	71	710	0	0	71	710
Portugal	47	119	20	302	67	421
Romania	0	0	0	0	0	0
USSR	2	15	0	0	2	15
Yugoslavia	62	206	7	470	69	675
Oth Europe	8	86	0	0	8	86
TOTAL	4536	90537	1512	33682	6048	124219
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	214	513	70	120	284	633
Oth N & C Am.	0	0	0	0	0	0
TOTAL	435	1630	215	5442	650	7072
SOUTH AMERICA						
Argentina	2	14	5	23	7	37
Chile	0	0	0	0	0	0
Colombia	1	3	1	3	2	5
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	79	510	17	226	96	736
OCEANIA						
Australia	3	202	3	61	6	263
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	3	202	3	61	6	263

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	1252	1506	701	115	1953	1621
Hong Kong	4	3	9	1	13	4
India	28	139	5	2	33	141
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	23	561	7	73	30	635
Malaysia	35	5	0	0	35	5
Pakistan	0	0	0	0	0	0
Philippines	4	15	1	21	5	35
Thailand	26	1054	0	0	26	1054
Oth Asia	0	0	0	0	0	0
TOTAL	65801	99523	1877	22077	67678	121600
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	13	3	13	3
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	13	3	13	3

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A8620-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL
No. 158-90 December 5, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – SEPTEMBER 1990
(Values in Millions of U.S. Dollars)

	Sept. 1990	Aug. 1990	Average Jun-Aug	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 52.3	$ 45.4	$ 46.1	$ 453.9	$ 357.6	26.9%
Imports	$137.6	$192.4	$173.6	$1,364.3	$1,427.0	(4.4%)
Balance	($ 85.3)	($147.0)	($127.5)	($ 910.4)	($1,069.4)	(14.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 34.3	$ 35.5	$ 37.6	$ 344.2	$ 355.2	(3.1%)
Imports	$ 42.9	$ 61.5	$ 49.3	$ 377.7	$ 425.9	(11.3%)
Balance	($ 8.6)	($ 26.0)	($ 11.7)	($ 33.5)	($ 70.7)	(52.6%)
MACHINE TOOL TOTAL						
Exports	$ 86.5	$ 81.0	$ 83.7	$ 798.1	$ 712.8	12.0%
Imports	$180.5	$253.9	$222.9	$1,741.9	$1,852.8	(6.0%)
Balance	($ 94.0)	($172.9)	($139.2)	($ 943.8)	($1,140.0)	(17.2%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.3	$ 27.7	$ 26.1	$ 259.3	$ 183.0	41.7%
Imports	$ 97.9	$142.4	$115.3	$ 931.3	$ 989.4	(5.9%)
Balance	($ 69.6)	($114.7)	($ 89.2)	($ 672.0)	($ 806.4)	(16.7%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$149.3	$151.7	$147.7	$1,357.3	NA	NA
Imports	$140.4	$173.6	$161.7	$1,465.5	NA	NA
Balance	$ 8.9	($ 21.9)	($ 14.0)	($ 108.2)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

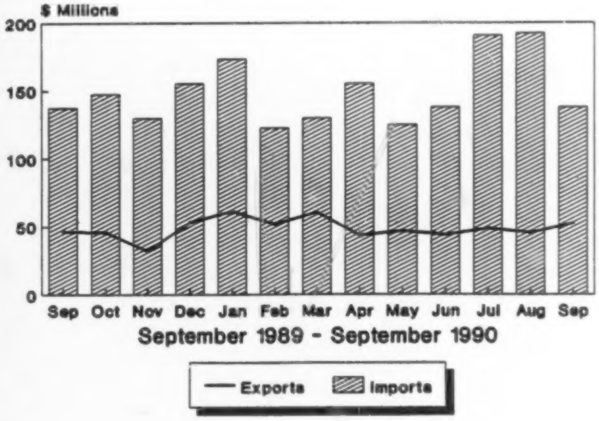
- U.S. machine tool imports fell to $180.5 million in September, 26% lower than the July-August average. Imports from Germany fell to $29.7 million in September after reaching $63.2 million in August and $54.1 million in July.

- U.S. machine tool exports in September were $86.5 million, slightly higher than July and August but a bit lower than the monthly average for 1990. Year-to-date exports ($798.1 million) are on pace to exceed the 1981 record of $1.0 billion.

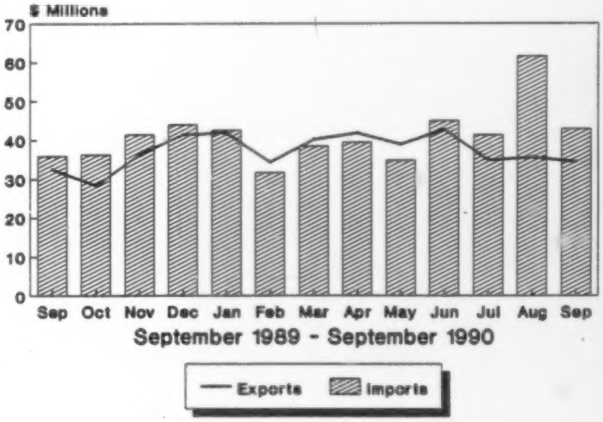
- The U.S. trade deficit in machine tools improved 17% so far in 1990 compared with 1989.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

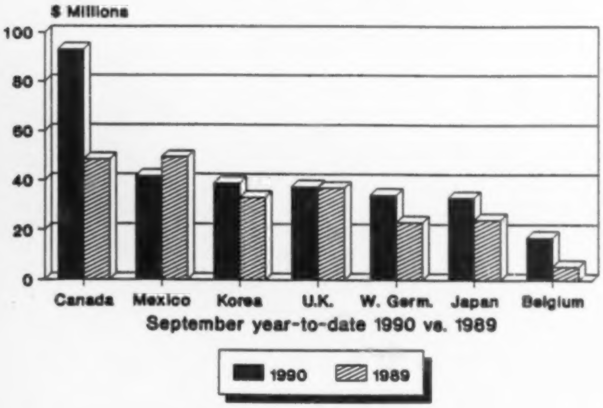
Exports

- Year-to-date exports of metal cutting machines were $453.9 million, up 27% over 1989. All major product groups except grinding machines (down less than 1%) showed increases over last year.

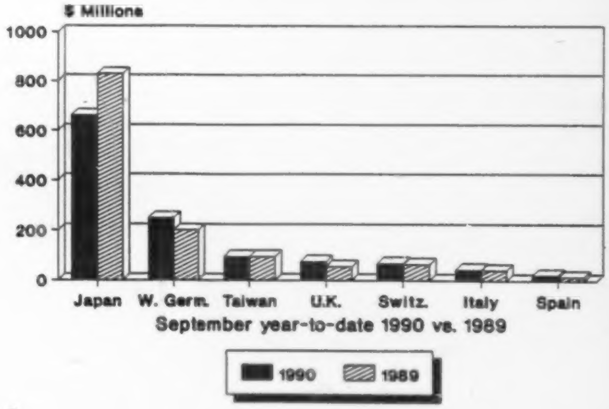
- Canada was the largest market in 1990 through September at $93.1 million, up 92% over 1989. Other large increases include Belgium ($17.2 million, up 208%); India ($16.6 million, up 97%); Australia ($14.0 million, up 71%) and Malaysia ($2.3 million, up 145%).

- West Germany was the largest export market in September, paced by an NC multi-station transfer machine valued at $5.3 million. Also in September: four gear cutting machines to the Soviet Union valued at $2.7 million.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- U.S. metal cutting imports in September fell to $137.6 million, down from record highs in July and August. Metal cutting imports from Germany fell to $24.2 million from $54.2 million in August.

- Year-to-date imports of metal cutting machines reached $1.4 billion, down 4% from 1989. Imports from Japan ($662 million) were down 20%; imports from Germany ($248.9 million) were up 24%.

- Year-to-date imports of boring machines were down 32% from 1990 to $31.4 million; imports of station type machines were up almost 35% to $67.0 million. The major suppliers of station type machines so far in 1990: Japan ($34.1 million); Germany ($18.4 million) and Italy ($4.8 million).

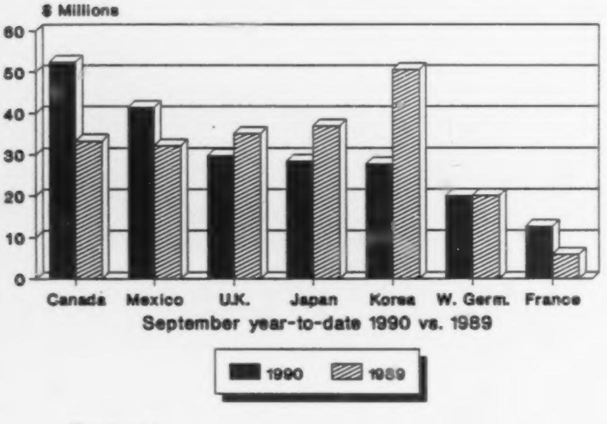
METAL FORMING MACHINE TOOLS

Exports

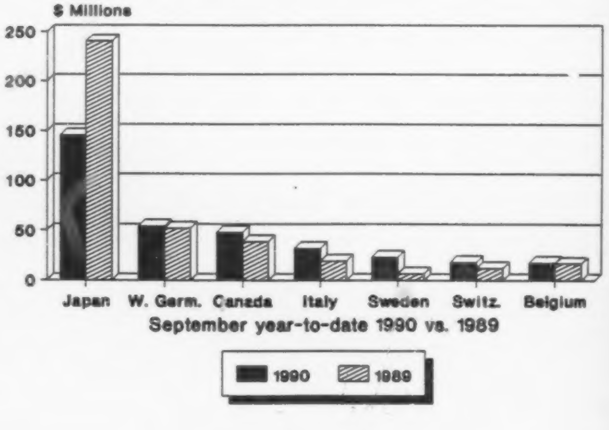
- Year-to-date exports of metal forming machines were $344.2 million, down 3% from 1989. Following Canada ($52.4 million, up 58% over 1989) as year-to-date export leaders were Mexico ($41.4 million, up 29%), the United Kingdom ($29.7 million, down 15%) and Japan ($28.4 million, down 23%).

- In 1990 through September, exports of presses were up 24% to $74.2 million. The leading markets for presses so far in 1990: Mexico ($11.3 million); South Korea ($11.3 million); Canada ($7.1 million) and the United Kingdom ($5.8 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Imports of metal forming machine tools fell 30% in September from August to $42.9 million. Year-to-date imports of $377.7 million were down 11% from 1989.

- Japan was the leading year-to-date supplier of metal forming machines at $145.3 million, down 40% from 1989. Germany's year-to-date total of $54.3 million was 4% higher than 1989.

- Year-to-date 1990 imports of presses were $81.7 million, down from $121.7 million in 1989. In unit terms, though, imports of presses rose from 1,395 in 1989 through September to 3,028 in 1990 through September.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of other manufacturing technology dipped in September to $149.3 million from $151.7 million in August.

- Year-to-date exports of machine tool parts and accessories totalled $536.4 million, up slightly from 1989. The leading markets so far in 1990: Canada ($119.4 million, up from $90.7 million in 1989); the United Kingdom ($59.5 million) and Germany ($51.8 million).

- Year-to-date exports of numerical controls for controlling machine tools fell from $31.6 million in 1989 to $23.4 million in 1990.

Imports

- Imports of machine tool parts and accessories were $416.6 million in 1990 through September. The leading sources: Japan ($116.1 million, down from $132.8 million in 1989) and Germany ($102.3 million, up from $88.0 million).

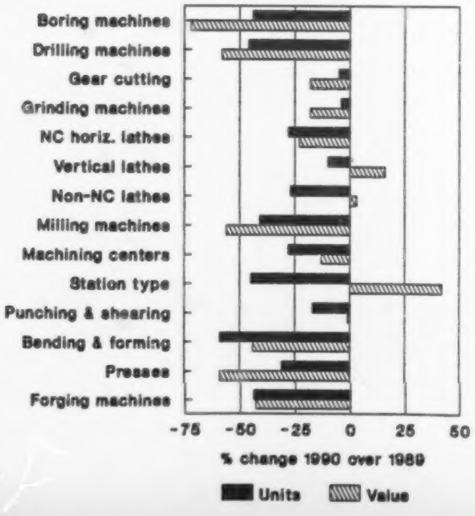
- Year-to-date imports of numerical controls for controlling machine tools were $35.1 million in 1990, compared with $37.5 million last year.

- Imports of industrial robots were $81.6 million in 1990 through September. The corresponding figure for 1989: $136.3 million.

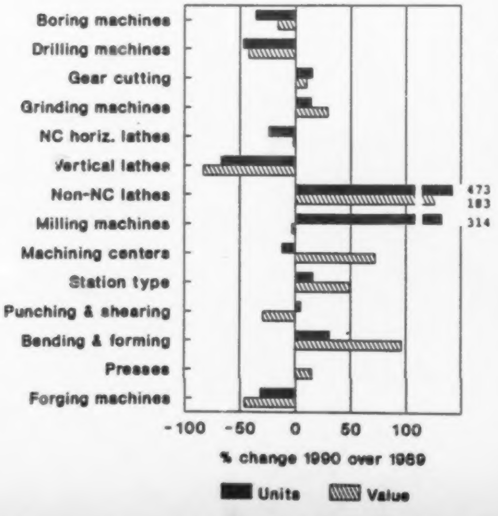
MONTHLY FOCUS

The tables below detail the percentage changes by value and in unit terms of U.S. machine tool imports from Japan and Germany for the first nine months of 1989 and 1990. For Japan, imports are generally down across the board, in both value and unit terms. For Germany, some product types saw increases while others fell. And in some cases, units fell while value increased. For example, imports of machining centers from Germany fell from 209 machines in 1989 through September to 183 in 1990 (a 12% fall), but the value in 1990 was 72% higher.

U.S. Machine Tool Imports from Japan
January-September 1990 vs. 1989



U.S. Machine Tool Imports from W.Germany
January-September 1990 vs. 1989



1990 EXPORTS

METAL CUTTING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 8,820,209	$ 5,797,617	52.14%	$ 93,079,267	$48,476,569	92.01%
Mexico	3,448,498	6,661,079	-48.23	41,851,750	49,411,094	-15.30
Korea	4,955,401	2,391,974	107.17	38,944,660	33,203,088	17.29
U.K.	1,863,521	3,240,440	-42.49	37,621,853	37,038,189	1.58
West Germany	8,985,424	1,860,361	382.99	34,212,588	23,207,259	47.42
Japan	6,269,146	7,146,552	-12.28	33,258,212	24,351,112	36.58
Belgium	723,105	957,009	-24.44	17,187,015	5,588,262	207.56
India	1,225,769	4,695,070	-73.89	16,596,556	8,438,686	96.67
China	1,400,090	1,901,325	-26.36	15,552,797	22,261,641	-30.14
Australia	547,544	3,182,356	-82.79	13,990,972	8,186,096	70.91
Italy	719,809	855,507	-15.86	13,202,789	10,858,970	21.58
Brazil	983,665	925,401	6.30	11,448,300	7,613,628	50.37
Taiwan	744,257	522,368	42.48	9,490,778	7,166,722	32.43
Singapore	1,383,615	906,954	52.56	7,459,882	6,350,779	17.46
France	866,101	85,519	912.76	7,117,168	9,980,424	-28.69
USSR	2,697,820	0	NA	6,404,994	6,479,020	-1.14
Venezuela	997,211	829,927	20.16	5,699,235	5,113,213	11.46
Spain	743,250	42,852	1,634.46	5,203,492	2,807,112	85.37
Switzerland	71,193	390,405	-81.76	4,577,091	3,010,379	52.04
Netherlands	189,199	343,353	-44.90	4,240,016	3,524,073	20.32
Malaysia	122,661	972,466	-87.39	2,273,340	926,675	145.32
Thailand	269,370	201,994	33.36	1,657,647	1,876,029	-11.64
Austria	0	29,816	-100.00	226,757	987,499	-77.04
Indonesia	6,725	28,201	-76.15	172,977	4,096,308	-95.78

METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 6,624,036	$ 5,442,737	21.70%	$ 52,439,014	$33,226,610	57.82%
Mexico	4,268,853	3,927,382	8.69	41,401,043	32,141,903	28.81
U.K.	2,455,806	1,145,530	114.38	29,693,360	35,021,409	-15.21
Japan	2,263,121	4,211,843	-46.27	28,403,657	36,895,420	-23.02
Korea	729,642	4,181,197	-82.55	27,758,848	50,517,137	-45.05
West Germany	2,874,086	1,097,303	161.92	19,984,311	20,012,050	-0.14
France	728,851	535,365	36.14	12,534,098	5,832,356	114.91
China	938,263	497,350	88.65	12,314,542	8,914,867	38.13
Taiwan	1,324,220	529,633	150.03	11,493,773	15,053,891	-23.65
Italy	631,394	738,009	-14.45	7,276,085	6,707,599	8.48
Netherlands	1,056,874	1,055,977	0.08	6,771,658	5,749,761	17.77
India	155,782	17,654	782.42	5,892,777	7,560,110	-22.05
Indonesia	1,296,993	2,093,331	-38.04	5,636,467	152,452	3,597.21
Brazil	393,830	1,033,206	-61.88	5,496,371	5,808,739	-5.38
Spain	522,896	170,589	206.52	5,162,828	3,693,191	39.79
Singapore	558,499	263,200	112.20	4,837,993	6,644,562	-27.19
Australia	798,437	154,478	416.86	4,713,616	5,469,892	-13.83
Malaysia	306,262	125,526	143.98	4,344,033	1,378,467	215.14
Thailand	82,288	370,817	-77.81	3,689,932	3,319,947	11.14
Belgium	227,979	154,389	47.67	2,538,998	2,385,400	6.44
Austria	55,156	386,078	-85.71	2,164,022	662,010	226.89
Switzerland	201,015	192,190	4.59	1,888,536	1,214,087	55.55
Venezuela	390,369	59,820	552.57	1,418,364	7,686,018	-81.55
USSR	0	0	NA	694,819	976,510	-28.85

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Canada	$ 15,444,245	$ 11,240,354	37.40%	$145,518,281	$81,703,179	78.11%
Mexico	7,717,351	10,588,461	-27.12	83,252,793	81,552,997	2.08
U.K.	4,319,327	4,385,970	-1.52	67,315,213	72,059,598	-6.58
Korea	5,685,043	6,573,171	-13.51	66,703,508	83,720,225	-20.33
Japan	8,532,267	11,358,395	-24.88	61,661,869	61,246,532	0.68
West Germany	11,859,510	2,957,664	300.98	54,196,899	43,219,309	25.40
China	2,338,353	2,398,675	-2.51	27,867,339	31,176,508	-10.61
India	1,381,551	4,712,724	-70.68	22,489,333	15,998,796	40.57
Taiwan	2,068,477	1,052,001	96.62	20,984,551	22,220,613	-5.56
Italy	1,351,203	1,593,516	-15.21	20,478,874	17,566,569	16.58
Belgium	951,084	1,111,398	-14.42	19,726,013	7,973,662	147.39
France	1,594,952	620,884	156.88	19,651,266	15,812,780	24.27
Australia	1,345,981	3,336,834	-59.66	18,704,588	13,655,988	36.97
Brazil	1,377,495	1,958,607	-29.67	16,944,671	13,422,367	26.24
Singapore	1,942,114	1,170,154	65.97	12,297,875	12,995,341	-5.37
Netherlands	1,246,073	1,399,330	-10.95	11,011,674	9,273,834	18.74
Spain	1,266,146	213,441	493.21	10,366,320	6,500,303	59.47
Venezuela	1,387,580	889,747	55.95	7,117,599	12,799,231	-44.39
USSR	2,697,820	0	NA	7,099,813	7,455,530	-4.77
Malaysia	428,923	1,097,992	-60.94	6,617,373	2,305,142	187.07
Switzerland	272,208	582,595	-53.28	6,465,627	4,224,466	53.05
Indonesia	1,303,718	2,121,532	-38.55	5,809,444	4,248,760	36.73
Thailand	351,658	572,811	-38.61	5,347,579	5,195,976	2.92
Austria	55,156	415,894	-86.74	2,390,779	1,649,509	44.94

1990 IMPORTS

METAL CUTTING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$76,786,328	$ 82,828,649	-7.29%	$662,223,182	$ 830,089,590	-20.22%
West Germany	24,174,207	54,244,598	-55.43	248,892,189	200,111,116	24.38
Taiwan	8,693,755	9,779,840	-11.11	95,487,750	94,464,210	1.08
U.K.	5,883,753	7,444,968	-20.97	74,950,250	55,324,111	35.47
Switzerland	6,220,985	11,407,997	-45.47	68,638,975	63,539,362	8.03
Italy	2,630,744	4,333,233	-39.29	44,123,559	40,635,331	8.58
Spain	575,155	3,854,207	-85.08	20,694,510	14,763,093	40.18
France	411,970	1,749,607	-76.45	20,416,106	17,966,969	13.63
Canada	1,313,765	1,116,904	17.63	16,528,039	15,684,817	5.38
Singapore	1,174,361	1,107,136	6.07	14,837,621	11,886,541	24.83
Korea	1,111,870	2,525,145	-55.97	14,800,942	18,921,240	-21.78
Sweden	927,290	2,531,801	-63.37	12,164,462	9,794,734	24.19
Brazil	586,911	493,347	18.97	10,082,334	5,109,852	97.31
Belgium	393,197	205,399	91.43	1,625,914	4,500,680	-63.87

METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$18,556,702	$ 20,859,668	-11.04%	$145,319,640	$ 240,232,507	-39.51%
West Germany	5,514,397	8,913,567	-38.13	54,286,831	52,087,606	4.22
Canada	5,409,200	5,321,903	1.64	48,034,743	38,909,360	23.45
Italy	828,127	5,304,790	-84.39	31,940,783	19,498,432	63.81
Sweden	5,552,986	12,935,168	-57.07	23,391,335	6,584,142	255.27
Switzerland	1,871,888	1,949,858	-4.00	18,152,010	11,886,125	52.72
Belgium	327,216	1,186,838	-72.43	17,872,135	16,845,391	6.10
U.K.	1,320,038	1,884,725	-29.96	11,165,630	10,569,852	5.64
Taiwan	654,271	607,741	7.66	7,835,595	6,703,746	16.88
Spain	191,671	268,229	-28.54	3,270,910	2,043,745	60.04
France	289,083	362,485	-20.25	3,107,090	1,310,373	137.11
Korea	1,391	390,655	-99.64	515,738	294,799	74.95
Brazil	2,406	200,000	-98.80	202,406	4,517,850	-95.52
Singapore	62,380	5,233	1,092.05	132,580	728,562	-81.80

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	SEPTEMBER	AUGUST	%CHANGE	SEP YTD'90	SEP YTD'89	%CHANGE
Japan	$95,343,030	$103,688,317	-8.05%	$807,542,822	$1,070,322,097	-24.55%
West Germany	29,688,604	63,158,165	-52.99	303,179,020	252,198,722	20.21
Taiwan	9,348,026	10,387,581	-10.01	103,323,345	101,167,956	2.13
Switzerland	8,092,873	13,357,855	-39.41	86,790,985	75,425,487	15.07
U.K.	7,203,791	9,329,693	-22.79	86,115,880	65,893,963	30.69
Italy	3,458,871	9,638,023	-64.11	76,064,342	60,133,763	26.49
Canada	6,722,965	6,438,807	4.41	64,562,782	54,594,177	18.26
Sweden	6,480,276	15,466,969	-58.10	35,555,797	16,378,876	117.08
Spain	766,826	4,122,436	-81.40	23,965,420	16,806,838	42.59
France	701,053	2,112,092	-66.81	23,523,196	19,277,342	22.03
Belgium	720,413	1,392,237	-48.26	19,498,049	21,346,071	-8.66
Korea	1,113,261	2,915,800	-61.82	15,316,680	19,216,039	-20.29
Singapore	1,236,741	1,112,369	11.18	14,970,201	12,615,103	18.67
Brazil	589,317	693,347	-15.00	10,284,740	9,627,702	6.82

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		SEP'90 Y-T-D TOTALS		SEPTEMBER 1989		SEP'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	45,301	122,593,523	6,537	10,153,000	44,218	111,057,418
Boring Machines	13	892,848	130	14,370,322	7	455,605	211	12,740,310
Drilling Machines	72	2,247,262	811	14,910,443	74	1,667,003	289	13,027,457
Gear Cutting Machines	16	8,205,773	175	43,900,659	8	2,758,714	192	28,237,064
Grinding Machines	412	8,753,533	2,890	98,104,939	234	10,589,426	2,868	98,396,419
Horizontal Lathes NC	29	3,059,742	329	35,262,360	32	5,329,579	183	20,310,826
Vertical Lathes NC	5	2,322,630	53	10,143,448	0	0	15	2,033,391
Lathes Non-NC	51	1,033,985	570	12,943,818	37	530,811	387	10,417,196
Milling Machines	38	5,262,002	334	29,841,729	30	1,466,905	446	22,857,577
Machining Centers	13	2,443,148	290	44,603,969	75	7,466,254	259	34,281,242
Station Type Machines	5	5,650,047	56	26,716,946	7	4,126,477	44	18,444,241
Other Metal Cutting	288	5,325,005	2,908	57,722,578	201	5,348,111	1,795	44,807,494
Punching & Shearing Machines	56	3,258,296	1,112	48,739,774	122	4,957,288	944	45,635,624
Bending & Forming Machines	165	8,316,381	1,404	52,564,457	63	3,118,880	779	36,687,094
Presses	126	5,543,751	1,698	74,192,075	123	6,266,003	1,136	59,999,582
Forging Machines	12	2,088,733	287	36,972,225	109	3,380,224	603	29,226,324
Other Metal Forming	168	8,580,087	2,339	74,512,010	208	11,018,013	3,180	124,605,124
TOTAL	6,687	86,524,911	60,687	798,095,275	7,867	78,632,293	57,549	712,764,383

PRODUCT TYPES	% CHANGE AUG 90' - SEP 90'		% CHANGE SEP 89' - SEP 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	7.30	-7.32	-20.18	33.38	2.45	10.39
Boring Machines	62.50	-12.84	85.71	95.97	-38.39	12.79
Drilling Machines	-26.53	35.47	-2.70	34.81	180.62	14.45
Gear Cutting Machines	300.00	265.30	100.00	197.45	-8.85	55.47
Grinding Machines	27.16	-37.79	76.07	-17.34	0.77	-0.30
Horizontal Lathes NC	-3.33	18.23	-9.38	-42.59	79.78	73.61
Vertical Lathes NC	-58.33	-52.19	NA	NA	253.33	398.84
Lathes Non-NC	-17.74	-37.87	37.84	94.79	47.29	24.25
Milling Machines	35.71	180.50	26.67	258.71	-25.11	30.56
Machining Centers	-18.75	5.27	-82.67	-67.28	11.97	30.11
Station Type Machines	NA	NA	-28.57	36.92	27.27	44.85
Other Metal Cutting	24.14	-9.15	43.28	-0.43	62.01	28.82
Punching & Shearing Machines	-29.11	44.85	-54.10	-34.27	17.80	6.80
Bending & Forming Machines	-38.66	-11.77	161.90	166.65	80.23	43.28
Presses	-5.26	13.73	2.44	-11.53	49.47	23.65
Forging Machines	-55.56	-62.37	-88.99	-38.21	-52.40	26.50
Other Metal Forming	-27.90	41.23	-19.23	-22.13	-26.45	-40.20
TOTAL	4.19	6.88	-15.00	10.04	5.45	11.97

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		SEP'90 Y-T-D TOTALS		SEPTEMBER 1989		SEP'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	686,157	113,502,989	77,048	15,144,015	527,191	122,697,733
Boring Machines	52	3,494,230	461	31,399,966	46	5,045,649	644	46,262,632
Drilling Machines	49	2,266,373	1,111	34,565,502	96	2,544,792	1,414	62,988,949
Gear Cutting Machines	69	4,625,890	409	37,226,404	16	3,220,313	531	33,456,075
Grinding Machines	616	25,521,740	6,542	226,741,798	656	18,270,938	6,115	218,847,865
Horizontal Lathes NC	194	20,111,149	2,465	239,587,411	366	33,946,089	3,223	293,446,008
Vertical Lathes NC	4	689,943	141	19,582,703	12	1,799,909	120	19,174,059
Lathes Non-NC	500	7,286,875	6,110	88,364,341	300	4,584,582	3,988	65,061,895
Milling Machines	363	7,383,527	4,155	65,479,331	448	6,954,433	4,477	87,619,106
Machining Centers	147	27,592,987	2,383	316,384,692	323	34,561,766	2,774	303,700,589
Station Type Machines	14	14,932,439	138	67,042,977	4	2,526,536	164	49,554,882
Other Metal Cutting	233	14,697,321	3,724	143,597,527	289	11,236,576	3,766	142,126,123
Punching & Shearing Machines	103	4,806,367	1,318	55,272,524	112	6,143,562	1,345	58,408,689
Bending & Forming Machines	161	5,831,579	1,727	69,321,030	154	4,509,033	2,015	70,586,686
Presses	416	10,399,978	3,028	81,698,564	134	5,006,807	1,395	121,676,699
Forging Machines	144	8,927,234	783	50,125,743	51	3,645,170	1,189	67,040,342
Other Metal Forming	204	10,822,213	2,061	102,049,008	134	13,896,994	3,918	90,126,555
TOTAL	81,753	180,539,323	722,713	1,741,942,510	80,189	173,037,164	564,269	1,852,774,887

PRODUCT TYPES	% CHANGE AUG'90 - SEP'90		% CHANGE SEP'89 - SEP'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	12.22	-15.53	1.86	-26.38	30.15	-7.49
Boring Machines	30.00	-23.99	13.04	-30.75	-28.42	-32.13
Drilling Machines	-62.31	-52.14	-48.96	-10.94	-21.43	-45.12
Gear Cutting Machines	27.78	-38.20	331.25	43.65	-22.98	11.27
Grinding Machines	-24.97	-19.82	-6.10	39.68	6.98	3.61
Horizontal Lathes NC	-29.20	-33.58	-46.99	-40.76	-23.52	-18.35
Vertical Lathes NC	-89.74	-78.10	-66.67	-61.67	17.50	2.13
Lathes Non-NC	0.40	-12.63	66.67	58.94	53.21	35.82
Milling Machines	4.31	-5.21	-18.97	6.17	-7.19	-25.27
Machining Centers	-38.49	-32.34	-54.49	-20.16	-14.10	4.18
Station Type Machines	-17.65	-0.12	250.00	491.02	-15.85	35.29
Other Metal Cutting	-57.01	-46.01	-19.38	30.80	-1.12	1.04
Punching & Shearing Machines	-36.81	-26.67	-8.04	-21.77	-2.01	-5.37
Bending & Forming Machines	-25.46	-61.37	4.55	29.33	-14.29	-1.79
Presses	-53.88	-50.55	210.45	107.72	117.06	-32.86
Forging Machines	242.86	133.40	182.35	144.91	-34.15	-25.23
Other Metal Forming	-10.13	-16.92	52.24	-22.13	-47.40	13.23
TOTAL	9.75	-28.89	1.95	4.34	28.08	-5.98

U.S. EXPORTS
Metal Cutting Machine Tools - September 90

RELEASED: December 5, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	53	4710	7	520
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	57	9877	1	258
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	16	3657	2	664
100035	Horiz. mach. ctrs., ATC	41	11265	2	529
100045	Mach. ctrs., n.e.c.	176	19804	8	992
200010	Unit construction mach. (single station transfer), NC	2	230	2	230
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	8	16543	1	5284
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	22	5251	2	600
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	236	17947	17	1153
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	51	6823	8	1090
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	20	5242	2	216
190030	Horiz. engine or toolroom lathes, non-NC	89	1698	5	84
190050	Automatic bar and/or chucking mach., single spindle, non-NC	11	287	1	4
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	41	2001	6	290
190090	Horiz. lathes, n.e.c., non-NC	341	4461	39	656
911060	Vertical turret lathes, multiple spindle, NC	2	622	1	559
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	1	691
915070	Vertical lathes, excl. VTL's, n.e.c., NC	34	7858	3	1073
991050	Vertical turret lathes, non-NC	26	609	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887	0	0
8459100000	Way-type unit head machines	17	2338	2	136
210080	Other drilling machines, NC	82	7582	12	1383
290040	Drilling machines, multiple spindle, non-NC	30	1367	1	43
290050	Drilling machines, radial, non-NC	18	152	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	78	1793	6	287
290090	Drilling machines, n.e.c., non-NC	603	4017	53	535
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	17	961	4	180
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	0	0
400040	Boring machines, vertical, NC	6	2024	2	200
400050	Boring machines, vertical, non-NC	36	1180	2	31
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	28	1423	5	482
510080	Milling machines, knee type, NC	19	1990	4	809
590030	Milling machines, knee type, non-NC	91	3427	17	853
610080	Milling machines, excl. knee type, n.e.c., NC	48	17935	6	3022
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	152	5690	11	578
700020	Threading or tapping machines, n.e.c., NC	26	1203	0	0
700080	Threading or tapping machines, n.e.c., non-NC	333	3934	31	878
8460110080	Flat surface grinding mach., NC	59	6674	8	235
190010	Flat surface grinding mach., recip.-table type, non-NC	49	859	11	252
190050	Flat surface grinding mach., n.e.c., non-NC	26	4711	1	237
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	23210	2	1112
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5744	10	630
290030	Grinding mach., internal cylindrical, non-NC	35	2855	3	176
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	304	11758	62	1840
310080	Sharpening machines (tool & cutter grinding), NC	38	3882	3	91
390050	Sharpening machines (tool & cutter grinding), non-NC	763	12094	64	946
400060	Honing or lapping machines, NC	3	618	2	126
400080	Honing or lapping machines, non-NC	632	11602	159	1810
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	7	987	1	222
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	853	13112	86	1076
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	224	6060	11	125
200010	Shaping or slotting machines, NC	9	365	1	157
200090	Shaping or slotting machines, non-NC	27	631	2	18
300060	Broaching machines, NC	11	1223	1	84
300080	Broaching machines, non-NC	23	1347	4	55
401050	Gear hobbers	22	3209	2	703
401070	Gear shapers	26	5189	1	278
401090	Gear cutting machines, n.e.c.	78	31831	12	7180
405060	Gear grinding or finishing machines	49	3672	1	45
500050	Sawing or cutting-off machines, NC	102	3543	4	68
500090	Sawing or cutting-off machines, non-NC	1112	14576	155	2194
9000000001	Metal cutting machine tools, n.e.c.	987	20019	72	1225
9800000001	Used or rebuilt machine tools	3808	47606	447	4960
9900000001	Machine tools valued at less than $2,500	28102	17756	3507	2102
	Cutting Total			4896	52257
	Y-T-D Cutting Total	40456	453883		
	NC Y-T-D Cutting Total*	1386	195665		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	1	258
100025	0	0	0	0	0	0	0	0	1	159
100035	0	0	0	0	0	0	0	0	2	529
100045	0	0	0	0	0	0	0	0	1	500
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	532
110030	0	0	0	0	1	78	0	0	1	112
110050	0	0	0	0	5	524	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	216
190030	0	0	0	0	0	0	0	0	1	23
190050	0	0	0	0	0	0	0	0	1	4
190070	0	0	0	0	0	0	0	0	1	57
190090	5	85	0	0	0	0	0	0	4	105
911060	0	0	0	0	0	0	0	0	1	559
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	1	691
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	752
290040	0	0	0	0	0	0	0	0	1	43
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	4	113
290090	0	0	0	0	0	0	0	0	24	174
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	31	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	297	1	27
510080	0	0	0	0	0	0	0	0	3	531
590030	0	0	0	0	0	0	0	0	3	125
610080	0	0	0	0	0	0	0	0	1	83
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	19	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	99	0	0	2	8
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	508
290010	0	0	0	0	0	0	6	431	1	50
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	19	205	16	515
310080	0	0	0	0	0	0	0	0	1	26
390050	0	0	0	0	0	0	0	0	15	181
400060	0	0	0	0	0	0	0	0	1	26
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	1	222
900080	0	0	0	0	0	0	0	0	18	297
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	3	14	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	84
300080	0	0	0	0	0	0	0	0	1	20
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	4	68
500090	1	16	0	0	0	0	0	0	22	254
9000000001	0	0	0	0	0	0	2	6	17	138
9800000001	19	299	0	0	0	0	0	0	76	453
9900000001	129	117	0	0	117	22	19	13	314	375
Month Tot	156	548	0	0	124	723	52	984	547	8820
Y-T-D Tot	1497	13991	133	227	514	17187	577	11448	4861	93079
NC YTD Tot*	18	7137	1	23	136	15345	13	2216	313	52427

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	1	505	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	2	443	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	7	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	875	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	185	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	124	0	0	0	0	0	0
610080	0	0	1	90	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	2	12	0	0	0	0	0	0
8460110080	0	0	4	132	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	231	0	0	0	0	0	0	0	0
310080	0	0	1	32	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	22	3	17	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	13	1	9	0	0	0	0	8	78
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	1	278	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	22	1	17	0	0	3	54
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	0	0	10	105	13	334	0	0	7	421
9900000001	0	0	161	46	0	0	0	0	251	168
Month Tot	14	1400	186	866	16	1226	1	7	269	720
Y-T-D Tot	192	15553	986	7117	696	16597	94	173	1332	13203
NC YTD Tot*	38	9285	50	3253	22	8051	0	0	48	4123

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools – September 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	38	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	190	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	69	0	0
110030	12	713	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	17	332	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	198	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	121	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	9	0	0	23	308	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	33	0	0
510080	1	278	0	0	0	0	0	0	0	0
590030	2	128	0	0	0	0	0	0	0	0
610080	0	0	2	2020	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	6	119	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	2	19	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	1	237	0	0	0	0	0	0
210080	1	604	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	1	115	0	0	0	0	0	0	0	0
290050	1	12	0	0	0	0	8	104	3	24
310080	0	0	0	0	0	0	0	0	0	0
390050	16	500	1	8	2	10	5	39	0	0
400060	0	0	0	0	0	0	1	99	0	0
400080	13	185	101	1058	1	100	1	3	3	23
900060	0	0	0	0	0	0	0	0	0	0
900080	12	87	3	20	0	0	14	178	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	5	3	77	0	0	3	27	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	643	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	4	1755	2	1382	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	34	552	3	41	0	0	10	141	12	115
9000000001	11	280	0	0	0	0	3	13	0	0
9800000001	13	298	1	26	0	0	91	985	0	0
9900000001	383	115	105	77	9	13	325	202	13	20
Month Tot	506	6269	224	4955	12	123	521	3448	32	189
Y-T-D Tot	3369	33258	1513	38945	386	2273	7516	41852	430	4240
NC YTD Tot*	101	10782	57	12169	2	131	153	11909	9	860

Please see notes on last page of the metal forming section.

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	44	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	3	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	669	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	187	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	3	404	0	0	0	0	1	145	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	14	0	0	0	0	2	28	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	85	0	0	1	6	0	0	2	10
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	5	83	0	0	20	341	1	9
9000000001	0	0	18	456	2	20	4	20	1	4
9800000001	1	11	0	0	3	15	25	182	36	90
9900000001	47	37	17	17	38	30	26	28	68	81
Month Tot	61	1384	41	743	44	71	78	744	110	269
Y-T-D Tot	1145	7460	650	5203	881	4577	611	9491	351	1658
NC YTD Tot*	16	2395	42	1454	4	1182	23	5381	2	122

Please see notes on last page of the metal forming section.

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	6	482	0	0
100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	4	302	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	5284	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	155	0	0	0	0	0	0	0	0
110050	1	123	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	39	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	5	233	0	0	0	0	0	0	0	0
190090	2	20	0	0	0	0	0	0	6	62
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	2	136	0	0
210080	0	0	0	0	0	0	0	0	5	325
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	2	174	0	0
290090	2	10	0	0	0	0	1	31	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	4	180	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	2	200	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	125
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	11	476
610080	0	0	0	0	1	159	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	18	1	235
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	6	554	4	20	12	90
8460110080	0	0	0	0	0	0	0	0	4	103
190010	0	0	0	0	0	0	2	118	9	134
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	3	150	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	61	0	0
290050	0	0	0	0	0	0	5	200	0	0
310080	0	0	0	0	0	0	0	0	1	33
390050	2	53	0	0	0	0	22	146	1	9
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	3	32	356
900060	0	0	0	0	0	0	0	0	0	0
900080	6	89	0	0	2	9	5	57	11	130
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	4	0	0
200010	0	0	0	0	0	0	0	0	1	157
200090	2	18	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	3	35
401050	0	0	0	0	0	0	1	60	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	4	2698	0	0	2	1345	0	0
405060	0	0	0	0	0	0	1	45	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	16	177	0	0	0	0	5	65	21	307
9000000001	1	7	0	0	2	20	4	22	7	240
9800000001	16	181	0	0	22	204	9	375	105	982
9900000001	284	109	0	0	213	50	288	158	700	424
Month Tot	351	1864	4	2698	246	997	370	8985	931	4224
Y-T-D Tot	3482	37622	27	6405	766	5699	2301	34213	6146	32413
NC YTD Tot*	173	24198	0	0	12	1057	47	11174	106	10992

Please see notes on last page of the metal forming section.

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RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	248	7500	13	240
8462100030	Headers and upsetters, including cold headers	45	15824	4	1615
100050	Forging or die stamping machines, and hammers, n.e.c.	242	21149	8	474
210080	Bending, folding, straight. or flat. mach., incl presses, NC	250	24434	30	4846
290030	Press brakes, non-NC	127	2834	3	17
290040	Bending rolls, non-NC	63	1400	6	65
290050	Bending, folding, straight., or flat., n.e.c., non-NC	964	23897	126	3389
310080	Shearing machines, NC	66	6024	6	332
390050	Shearing machines, non-NC	262	7164	14	1425
410080	Punching or notching mach., incl. comb. punch & shear, NC	129	18559	5	487
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	655	16993	31	1015
910060	Hydraulic presses, NC	59	4214	10	460
910090	Hydraulic presses, non-NC	498	20710	40	1942
990030	Presses, n.e.c., NC	125	10380	14	431
990040	Presses, mechanical, non-NC	84	8796	14	1432
990060	Presses, n.e.c., non-NC	932	30093	48	1279
8463100080	Draw benches for bars, tubes, profiles, wire or the like	166	4562	22	857
200080	Thread rolling machines	48	2146	9	357
300080	Machines for working wire	568	17372	55	1948
900080	Metal forming machine tools, n.e.c.	1309	42932	69	5177
9800000002	Used or rebuilt machine tools	2649	49024	194	5554
9900000002	Machine tools valued at less than $2,500	10742	8207	1070	926

Forming Total			1791	34268
Y-T-D Forming Total	20231	344212		
NC Y-T-D Forming Total	629	63611		
Cutting and Forming Totals:				
Monthly Total			6687	86525
Y-T-D Total	60687	798095		
NC Y-T-D Total*	2015	259276		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	536401	0	62019
2000000000	Parts for working rubber or plastics - heading 8477	0	210730	0	22327
2710003070	Quenching or cutting oils	0	17187	0	573
8428900010	Industrial robots for lifting, handling, loading or unload	272	5422	24	585
8431390090	Parts industrial robots, handling and loading - heading 8428	0	55111	0	6616
8456100000	Laser, light or photon beam for working any material	694	34402	66	2632
200000	Ultrasonic process for working any material	66	1702	3	39
8477106010	Injection molding mach., for rubber or oth. thermosetting	234	11163	22	1696
106070	Injection molding mach., for thermoplastics	327	39177	53	4809
200010	Extruders for rubber or other thermosetting materials	267	10614	24	1166
200050	Extruders for processing thermoplastics	650	33279	34	5259
300000	Blow molding machines	477	35131	28	948
400000	Vacuum-molding and other thermoforming machines	4561	11707	38	308
510010	Machines for molding or retreading pneumatic tires	797	14427	188	2144
510090	Machines for molding or otherwise forming inner tubes	321	27179	39	1011
590000	Machines for molding or otherwise forming n.e.c.	1008	18398	123	2092
800000	Machines for working rubber or plastics n.e.c.	4223	83938	1202	7927
8479899040	Industrial robots, n.e.c.	4746	43635	454	3606
908040	Industrial robot parts	0	23010	0	2592
8537100030	Numerical controls for controlling machine tools	1573	23429	152	2351
9024100000	Machines and appliances for testing metals	0	57904	0	11008
9031100000	Machines for balancing mechanical parts	0	21711	0	1621
300000	Profile projectors	0	5788	0	128
9032810040	Industrial process control instr., hydraulic or pneumatic	508772	35882	83902	5834

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	104
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	8	2379
290030	0	0	0	0	0	0	0	0	3	17
290040	0	0	0	0	0	0	0	0	3	28
290050	2	27	0	0	0	0	2	31	22	486
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	275
410080	0	0	0	0	0	0	0	0	1	44
490050	0	0	0	0	0	0	0	0	16	435
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	13	0	0	0	0	1	159
990030	0	0	0	0	0	0	0	0	4	21
990040	1	558	0	0	0	0	0	0	4	123
990060	0	0	1	22	0	0	0	0	3	126
8463100080	0	0	0	0	2	30	4	91	4	122
200080	0	0	0	0	0	0	2	155	0	0
300080	0	0	0	0	1	25	2	38	5	54
900080	4	198	1	20	0	0	1	25	6	69
9800000002	1	13	0	0	8	167	0	0	32	2013
9900000002	4	3	0	0	5	6	64	53	197	168
Month Tot	12	798	3	55	16	228	75	394	317	6624
Y-T-D Tot	413	4714	62	2164	548	2539	517	5496	3268	52439
NC YTD Tot	26	1908	0	0	0	0	8	501	126	16645
C&F Month	168	1346	3	55	140	951	127	1377	864	15444
C&F Y-T-D	1910	18705	195	2391	1062	19726	1094	16945	8129	145518
C&F NC YTD*	44	9046	1	23	136	15345	21	2717	439	69072
Other Manufacturing Technology										
1000000000	0	1756	0	65	0	772	0	1359	0	11573
2000000000	0	1551	0	86	0	676	0	711	0	5035
2710003070	0	22	0	0	0	3	0	0	0	148
8428900010	1	35	0	0	1	15	0	0	4	263
8431390090	0	83	0	0	0	0	0	0	0	1799
8456100000	0	0	0	0	2	49	0	0	2	219
200000	1	14	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	5	370	1	47
106070	2	189	0	0	0	0	8	540	11	1123
200010	0	0	0	0	0	0	0	0	20	538
200050	0	0	1	41	1	178	0	0	12	302
300000	0	0	0	0	0	0	0	0	1	211
400000	5	42	0	0	0	0	1	18	0	0
510010	0	0	0	0	125	23	0	0	4	118
510090	4	11	0	0	1	421	0	0	0	0
590000	3	16	2	28	1	57	0	0	2	130
800000	11	212	0	0	4	154	18	283	55	1714
8479899040	0	0	0	0	1	45	0	0	338	2020
908040	0	6	0	0	0	0	0	0	0	1537
8537100030	1	11	0	0	0	0	0	0	5	54
9024100000	0	296	0	19	0	85	0	116	0	848
9031100000	0	42	0	0	0	0	0	0	0	809
300000	0	0	0	0	0	0	0	0	0	21
9032810040	678	53	343	17	1286	64	145	7	2624	172

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	24	3	30	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	5	220	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	17
290050	0	0	2	126	0	0	43	1237	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	28	0	0	0	0
410080	0	0	0	0	0	0	0	0	1	186
490050	0	0	1	209	0	0	0	0	4	248
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	8	81
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	1	8	1	17	0	0	3	43
8463100080	4	355	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	10	260	2	67	0	0	0	0	0	0
900080	1	176	0	0	3	59	0	0	4	38
9800000002	1	136	2	64	0	0	3	60	0	0
9900000002	14	12	15	11	26	22	0	0	20	19
Month Tot	30	938	29	729	34	156	46	1297	41	631
Y-T-D Tot	364	12315	476	12534	381	5893	241	5636	288	7276
NC YTD Tot	3	2629	41	4251	0	0	3	576	9	958
C&F Month	44	2338	215	1595	50	1382	47	1304	310	1351
C&F Y-T-D	556	27867	1462	19651	1077	22489	335	5809	1620	20479
C&F NC YTD*	41	11914	91	7504	22	8051	3	576	57	5081

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1100	0	2866	0	192	0	51	0	1234
2000000000	0	1638	0	136	0	648	0	37	0	210
2710003070	0	0	0	0	0	0	0	0	0	5
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	47	0	116	0	18	0	0	0	97
8456100000	0	0	0	0	0	0	0	0	4	163
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	2	145
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	9	0	0	0	0	0	0
510010	0	0	0	0	0	0	1	11	1	73
510090	1	72	0	0	1	75	0	0	1	7
590000	0	0	10	148	0	0	0	0	3	49
800000	34	1889	20	798	2	69	0	0	0	0
8479899040	0	0	8	49	0	0	0	0	4	442
908040	0	0	0	107	0	0	0	0	0	73
8537100030	0	0	23	321	0	0	0	0	4	60
9024100000	0	160	0	126	0	20	0	0	0	44
9031100000	0	0	0	0	0	301	0	0	0	3
300000	0	0	0	0	0	0	0	0	0	35
9032810040	8	7	1975	108	20493	77	185	14	5147	317

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	36	0	0	0	0	2	5	0	0
8462100030	3	1177	0	0	0	0	0	0	0	0
100050	0	0	4	188	0	0	0	0	0	0
210080	0	0	5	230	2	89	2	116	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	2	20	0	0
290050	6	153	4	27	4	109	10	443	2	15
310080	1	66	0	0	0	0	2	80	0	0
390050	0	0	0	0	0	0	4	150	0	0
410080	0	0	0	0	0	0	0	0	3	257
490050	0	0	2	6	0	0	6	79	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	21	1440	1	60
990030	0	0	6	172	1	108	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	33	513	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	7	181	0	0	0	0	4	18	0	0
900080	2	42	5	65	0	0	8	446	10	260
9800000002	23	540	2	34	0	0	79	741	7	435
9900000002	78	67	7	6	0	0	224	219	34	31
Month Tot	121	2263	35	730	7	306	397	4269	57	1057
Y-T-D Tot	1473	28404	585	27759	91	4344	4449	41401	304	6772
NC YTD Tot	26	3201	49	4013	16	920	92	5424	42	3642
C&F Month	627	8532	259	5685	19	429	918	7717	89	1246
C&F Y-T-D	4842	61662	2098	66704	477	6617	11965	83253	734	11012
C&F NC YTD*	127	13983	106	16182	18	1051	245	17333	51	4502

Other Manufacturing Technology

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	5870	0	5416	0	267	0	2866	0	1263
2000000000	0	1325	0	346	0	174	0	1173	0	1090
2710003070	0	11	0	10	0	12	0	34	0	0
8428900010	4	68	0	0	0	0	0	0	0	0
8431390090	0	188	0	588	0	0	0	317	0	112
8456100000	25	1350	1	12	0	0	15	340	0	0
200000	1	12	0	0	0	0	1	13	0	0
8477106010	0	0	0	0	0	0	16	1279	0	0
106070	1	66	0	0	0	0	9	549	3	734
200010	0	0	1	15	0	0	3	613	0	0
200050	3	72	0	0	0	0	10	136	0	0
300000	2	165	0	0	0	0	5	41	0	0
400000	13	19	0	0	0	0	15	185	0	0
510010	0	0	4	521	6	135	23	544	0	0
510090	0	0	1	30	0	0	11	145	1	4
590000	8	611	16	245	1	9	39	236	0	0
800000	1	23	2	14	2	14	1020	1792	0	0
8479899040	10	59	1	5	0	0	6	79	0	0
908040	0	192	0	59	0	0	0	37	0	0
8537100030	3	107	6	83	0	0	1	15	0	0
9024100000	0	1542	0	6034	0	6	0	175	0	0
9031100000	0	36	0	157	0	0	0	145	0	0
300000	0	22	0	4	0	0	0	0	0	19
9032810040	3476	2676	463	54	0	0	433	36	9855	512

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	3	8
8462100030	0	0	1	438	0	0	0	0	0	0
100050	0	0	0	0	0	0	3	197	0	0
210080	0	0	0	0	0	0	2	75	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	5	270	0	0	2	32	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	13	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	2	40	0	0
990030	0	0	0	0	0	0	0	0	2	57
990040	5	240	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	190	0	0
8463100080	0	0	0	0	1	6	0	0	2	9
200080	0	0	0	0	0	0	6	197	0	0
300080	0	0	3	72	0	0	0	0	0	0
900080	2	24	0	0	1	95	1	610	1	4
9800000002	0	0	0	0	1	31	1	13	0	0
9900000002	22	25	0	0	49	38	3	3	5	4
Month Tot	34	558	5	523	54	201	19	1324	13	82
Y-T-D Tot	382	4838	130	5163	285	1889	332	11494	169	3690
NC YTD Tot	5	584	25	499	2	65	24	1659	4	155
C&F Month	95	1942	46	1266	98	272	97	2068	123	352
C&F Y-T-D	1527	12298	780	10366	1166	6466	943	20985	520	5348
C&F NC YTD*	21	2979	67	1953	6	1247	47	7040	6	277

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1587	0	349	0	636	0	604	0	614
2000000000	0	140	0	414	0	99	0	84	0	209
2710003070	0	15	0	0	0	3	0	78	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	266	0	0	0	0	0	153	0	4
8456100000	0	0	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	3	697	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	584	1	1643	0	0	0	0	0	0
300000	0	0	0	0	0	0	9	161	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	1	29	0	0	0	0	0	0
510090	1	8	0	0	0	0	0	0	6	148
590000	1	10	1	16	0	0	0	0	7	115
800000	3	8	6	94	0	0	4	4	0	0
8479899040	1	7	0	0	25	232	1	29	0	0
908040	0	195	0	0	0	75	0	33	0	0
8537100030	12	171	1	9	0	0	0	0	0	0
9024100000	0	24	0	237	0	6	0	59	0	16
9031100000	0	5	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	3	0	3	0	0
9032810040	688	79	4279	233	0	0	1222	61	12711	91

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	21	0	0	0	0	1	11	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	89
210080	4	175	0	0	0	0	0	0	2	1560
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	14	0	0	0	0	3	63	18	356
310080	0	0	0	0	0	0	0	0	3	186
390050	0	0	0	0	1	12	1	961	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	24	0	0
910060	7	303	0	0	0	0	0	0	3	157
910090	0	0	0	0	0	0	0	0	6	149
990030	1	73	0	0	0	0	0	0	0	0
990040	2	95	0	0	0	0	1	400	1	17
990060	0	0	0	0	0	0	1	255	4	104
8463100080	0	0	0	0	4	240	0	0	1	5
200080	1	5	0	0	0	0	0	0	0	0
300080	2	11	0	0	0	0	14	972	5	249
900080	7	1607	0	0	1	80	1	18	10	1342
9800000002	11	121	0	0	8	23	3	121	12	1042
9900000002	28	31	0	0	41	35	52	48	182	126
Month Tot	65	2456	0	0	55	390	78	2874	248	5383
Y-T-D Tot	1676	29693	19	695	228	1418	1185	19984	2365	45663
NC YTD Tot	49	4464	1	136	3	79	11	1239	64	10062
C&F Month	416	4319	4	2698	301	1388	448	11860	1179	9607
C&F Y-T-D	5158	67315	46	7100	994	7118	3486	54197	8511	78076
C&F NC YTD*	222	28661	1	136	15	1136	58	12413	170	21053

Other Manufacturing Technology

	U.K.		USSR		Venezuela		West Germany		All Other	
1000000000	0	6980	0	137	0	812	0	4262	0	9388
2000000000	0	987	0	70	0	500	0	1899	0	3089
2710003070	0	22	0	0	0	62	0	47	0	102
8428900010	3	22	0	0	0	0	4	80	7	104
8431390090	0	364	0	78	0	205	0	54	0	2127
8456100000	2	158	0	0	0	0	9	213	6	127
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	3	439	0	0	0	0	0	0	11	326
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	3	1998	0	0	0	0	2	304
300000	0	0	0	0	0	0	8	152	3	217
400000	0	0	0	0	0	0	0	0	3	36
510010	1	81	0	0	0	0	7	280	15	328
510090	2	9	0	0	0	0	0	0	9	80
590000	3	47	0	0	0	0	12	182	14	197
800000	3	42	0	0	0	0	2	30	15	786
8479899040	0	0	0	0	0	0	50	473	9	166
908040	0	128	0	0	0	0	0	118	0	31
8537100030	60	937	0	0	0	0	20	348	16	234
9024100000	0	278	0	0	0	20	0	342	0	557
9031100000	0	6	0	0	0	10	0	20	0	88
300000	0	0	0	0	0	0	0	8	0	13
9032810040	7994	603	77	4	71	98	6008	318	3741	231

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	1	157	0	0	1	157
Czechoslovakia	0	0	0	0	0	0
Denmark	23	15	6	76	29	91
East Germany	0	0	0	0	0	0
Finland	1	19	19	157	20	175
Greece	0	0	5	1267	5	1267
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	1	16	11	183	12	199
Luxembourg	0	0	0	0	0	0
Norway	12	135	6	115	18	250
Poland	0	0	0	0	0	0
Portugal	0	0	4	885	4	885
Romania	250	21	39	5	289	26
Sweden	16	296	1	7	17	302
Turkey	11	17	0	0	11	17
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1736	17534	439	11450	2175	28984
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	9	8	11	12	20	19
Dominican Rep	2	8	1	3	3	10
El Salvador	0	0	0	0	0	0
Guatemala	0	0	9	8	9	8
Haiti	1	13	0	0	1	13
Honduras	4	3	0	0	4	3
Jamaica	0	0	4	3	4	3
Panama	0	0	1	19	1	19
Trinidad	0	0	2	39	2	39
Oth N & C Am.	36	17	2	67	38	84
TOTAL	1120	12316	744	11044	1864	23360
SOUTH AMERICA						
Argentina	2	21	7	192	9	213
Bolivia	0	0	0	0	0	0
Chile	21	345	17	13	38	358
Colombia	15	147	7	120	22	267
Ecuador	5	50	1	35	6	85
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Oth South Am.	3	56	0	0	3	56
TOTAL	344	2600	162	1144	506	3744
OCEANIA						
New Zealand	11	19	0	0	11	19
Oth Oceania	0	0	0	0	0	0
TOTAL	167	567	12	798	179	1365

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	201	862	27	57	228	919
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	59	110	25	31	84	141
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	1	3	0	0	1	3
Pakistan	0	0	0	0	0	0
Philippines	120	96	3	1568	123	1664
Qatar	0	0	0	0	0	0
Saudi Arabia	31	61	0	0	31	61
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	14	30	16	38	30	68
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	11	159	11	159
TOTAL	1448	17539	421	9508	1869	27047
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	7	388	4	164	11	552
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	2	158	0	0	2	158
South Africa	64	1149	8	62	72	1211
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	8	5	0	0	8	5
TOTAL	81	1701	13	323	94	2024

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90 - September 90

RELEASED: December 5, 1990

		TOTAL YTD	
		UNITS	$000
8456300000	Electro-discharge machines	53	4710
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	57	9877
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	16	3657
100035	Horiz. mach. ctrs., ATC	41	11265
100045	Mach. ctrs., n.e.c.	176	19804
200010	Unit construction mach. (single station transfer), NC	2	230
200090	Unit construction mach. (single station transfer), non-NC	7	3468
300010	Multi-station transfer machines, NC	8	16543
300090	Multi-station transfer machines, non-NC	22	4138
8458110010	Horiz. lathes, multiple spindle, NC	22	5251
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	236	17947
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	51	6823
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	20	5242
190030	Horiz. engine or toolroom lathes, non-NC	89	1698
190050	Automatic bar and/or chucking mach., single spindle, non-NC	11	287
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	41	2001
190090	Horiz. lathes, n.e.c., non-NC	341	4461
911060	Vertical turret lathes, multiple spindle, NC	2	622
911080	Vertical turret lathes, n.e.c., NC	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347
915070	Vertical lathes, excl. VTL's, n.e.c., NC	34	7858
991050	Vertical turret lathes, non-NC	26	609
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887
8459100000	Way-type unit head machines	17	2338
210080	Other drilling machines, NC	82	7582
290040	Drilling machines, multiple spindle, non-NC	30	1367
290050	Drilling machines, radial, non-NC	18	152
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	78	1793
290090	Drilling machines, n.e.c., non-NC	603	4017
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856
310070	Boring-milling mach., n.e.c., NC	17	961
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799
400040	Boring machines, vertical, NC	6	2024
400050	Boring machines, vertical, non-NC	36	1180
400070	Boring machines, n.e.c., NC	9	3308
400080	Boring machines, n.e.c., non-NC	28	1423
510080	Milling machines, knee type, NC	19	1990
590030	Milling machines, knee type, non-NC	91	3427
610080	Milling machines, excl. knee type, n.e.c., NC	48	17935
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511
690070	Milling machines, bed type, non-NC	2	288
690090	Milling machines, n.e.c., non-NC	152	5690
700020	Threading or tapping machines, n.e.c., NC	26	1203
700080	Threading or tapping machines, n.e.c., non-NC	333	3934
8460110080	Flat surface grinding mach., NC	59	6674
190010	Flat surface grinding mach., recip.-table type, non-NC	49	859
190050	Flat surface grinding mach., n.e.c., non-NC	26	4711
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	23210
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	45	5744
290030	Grinding mach., internal cylindrical, non-NC	35	2855
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	304	11758
310080	Sharpening machines (tool & cutter grinding), NC	38	3882
390050	Sharpening machines (tool & cutter grinding), non-NC	763	12094
400060	Honing or lapping machines, NC	3	618
400080	Honing or lapping machines, non-NC	632	11602
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	7	987
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	853	13112
8461100060	Planing machines, NC	1	111
100080	Planing machines, non-NC	224	6060
200010	Shaping or slotting machines, NC	9	365
200090	Shaping or slotting machines, non-NC	27	631
300060	Broaching machines, NC	11	1223
300080	Broaching machines, non-NC	23	1347
401050	Gear hobbers	22	3209
401070	Gear shapers	26	5189
401090	Gear cutting machines, n.e.c.	78	31831
405060	Gear grinding or finishing machines	49	3672
500050	Sawing or cutting-off machines, NC	102	3543
500090	Sawing or cutting-off machines, non-NC	1112	14576
9000000001	Metal cutting machine tools, n.e.c.	987	20019
9800000001	Used or rebuilt machine tools	3808	47606
9900000001	Machine tools valued at less than $2,500	28102	17756
	Y-T-D Cutting Total	40456	453883
	NC Y-T-D Cutting Total*	1386	195665

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	21	1834
8457100015	0	0	0	0	11	1329	0	0	32	6075
100025	0	0	0	0	0	0	0	0	11	2440
100035	0	0	0	0	15	3186	0	0	10	2153
100045	0	0	0	0	27	3677	1	297	27	2836
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	13	2940
110030	5	574	0	0	50	3937	0	0	12	953
110050	0	0	0	0	28	2915	1	226	12	1868
110090	0	0	0	0	0	0	2	575	18	4667
190030	1	29	0	0	0	0	0	0	8	345
190050	0	0	0	0	0	0	0	0	6	161
190070	0	0	0	0	0	0	0	0	4	315
190090	56	218	0	0	3	36	0	0	61	1177
911060	0	0	0	0	0	0	0	0	1	559
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	2	713
915070	0	0	0	0	0	0	0	0	1	103
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	0	0	13	378
8459100000	0	0	0	0	1	181	2	151	0	0
210080	1	33	0	0	0	0	2	71	16	3005
290040	0	0	0	0	0	0	0	0	14	594
290050	0	0	0	0	0	0	0	0	15	105
290070	0	0	0	0	0	0	0	0	46	550
290090	18	80	0	0	0	0	14	119	250	1440
310010	0	0	0	0	0	0	2	759	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	4	334
400040	0	0	0	0	0	0	0	0	3	1134
400050	9	150	0	0	0	0	2	628	12	206
400070	0	0	0	0	0	0	0	0	9	3308
400080	0	0	0	0	0	0	2	297	7	410
510080	1	55	0	0	0	0	0	0	13	1381
590030	17	830	0	0	0	0	0	0	29	828
610080	2	2471	0	0	0	0	0	0	6	797
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	1	7	0	0	0	0	5	813	20	284
700020	1	17	1	23	4	99	0	0	3	306
700080	4	79	0	0	10	817	0	0	96	879
8460110080	3	2094	0	0	0	0	2	44	6	1800
190010	0	0	0	0	0	0	0	0	10	288
190050	4	861	0	0	0	0	1	131	4	1013
210080	1	255	0	0	0	0	1	196	18	8035
290010	0	0	0	0	0	0	6	431	5	288
290030	0	0	0	0	0	0	0	0	2	43
290050	0	0	0	0	0	0	38	963	60	2231
310080	3	89	0	0	0	0	0	0	3	280
390050	4	67	0	0	1	9	4	29	251	6705
400060	0	0	0	0	0	0	0	0	2	519
400080	14	116	4	51	1	8	1	6	40	794
900060	0	0	0	0	0	0	0	0	3	659
900080	17	175	2	17	2	18	3	372	196	2301
8461100060	0	0	0	0	0	0	0	0	1	111
100080	6	51	1	40	0	0	11	202	0	0
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	0	0	0	0	0	0	6	114
300060	0	0	0	0	0	0	0	0	3	796
300080	3	50	0	0	0	0	0	0	10	390
401050	0	0	0	0	0	0	0	0	1	63
401070	0	0	0	0	0	0	4	1778	11	1416
401090	2	1153	0	0	0	0	4	1839	1	487
405060	0	0	0	0	0	0	0	0	3	1020
500050	0	0	0	0	1	202	0	0	73	2849
500090	43	439	0	0	9	170	5	95	230	2656
9000000001	1	8	0	0	0	0	17	142	209	1527
9800000001	92	1482	4	16	8	287	136	1192	564	6817
9900000001	1183	748	121	79	343	315	309	57	2340	2638
Y-T-D Tot	1497	13991	133	227	514	17187	577	11448	4861	93079
NC YTD Tot*	18	7137	1	23	136	15345	13	2216	313	52427

Please see notes on last page of the metal forming section.

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	1	114	0	0	0	0	0	0	1	140
100025	1	505	0	0	0	0	0	0	0	0
100035	1	617	0	0	0	0	0	0	0	0
100045	8	3824	1	202	1	223	0	0	1	447
200010	0	0	6	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	1	66	0	0	0	0	0	0
110030	2	217	12	1015	0	0	0	0	0	0
110050	2	443	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	12	250
190090	1	7	0	0	0	0	1	7	8	46
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	14	5887	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	8	475	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	4	8	47	0	0	4	144
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1375
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	41	1	124	1	25	0	0	1	19
610080	13	2138	3	257	1	716	0	0	1	108
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	4	30	4	17	1	5	12	173
8460110080	1	787	4	132	0	0	0	0	0	0
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	1	164	3	584	1	359	0	0	2	495
290010	9	2339	2	935	0	0	0	0	0	0
290030	2	73	0	0	8	1948	0	0	1	27
290050	8	573	0	0	23	805	0	0	7	444
310080	0	0	2	64	0	0	0	0	0	0
390050	51	1100	1	44	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	16	328	15	119	3	196	0	0	20	264
900060	0	0	0	0	0	0	0	0	0	0
900080	2	17	13	97	6	44	0	0	48	449
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	0	0	0	0	0	0	2	53
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	1	278	0	0	0	0	0	0
401090	0	0	1	600	1	547	0	0	5	2554
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	3	8	11	187	8	1433	1	9	22	346
9000000001	1	15	21	499	6	127	3	13	40	1549
9800000001	40	1046	40	661	153	2032	0	0	50	984
9900000001	*14*	*11*	*838*	*377*	*439*	*159*	*86*	*42*	*1068*	*520*
Y-T-D Tot	192	15553	986	7117	696	16597	94	173	1332	13203
NC YTD Tot*	38	9285	50	3253	22	8051	0	0	48	4123

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	11	1477	0	0	0	0	7	295	1	33
8457100015	0	0	2	279	0	0	3	601	0	0
100025	0	0	2	478	1	109	0	0	0	0
100035	0	0	2	982	0	0	0	0	0	0
100045	11	515	27	2922	0	0	32	2154	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	3	415	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	5	515	0	0
110030	23	1646	5	343	0	0	4	293	3	160
110050	0	0	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	43	0	0	0	0	16	282	0	0
190050	1	6	0	0	0	0	2	31	0	0
190070	11	319	3	426	0	0	0	0	0	0
190090	11	130	14	73	0	0	125	2164	0	0
911060	0	0	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	17	1753	0	0
991050	0	0	0	0	0	0	4	79	0	0
995090	0	0	3	243	0	0	10	502	0	0
8459100000	0	0	4	345	0	0	2	266	0	0
210080	0	0	3	130	0	0	18	1173	0	0
290040	0	0	5	240	0	0	2	189	1	26
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	18	112	0	0
290090	21	220	29	249	3	183	125	807	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	0	0
400040	0	0	1	690	0	0	0	0	0	0
400050	0	0	0	0	0	0	7	103	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	14	438	0	0
510080	1	278	0	0	0	0	2	191	0	0
590030	3	254	0	0	5	166	2	46	0	0
610080	0	0	5	4744	0	0	3	102	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	238	0	0
690090	2	31	7	638	0	0	98	2710	0	0
700020	0	0	1	23	0	0	1	22	0	0
700080	0	0	1	42	0	0	39	238	3	80
8460110080	4	267	0	0	1	22	20	1010	2	64
190010	2	6	0	0	0	0	7	113	0	0
190050	1	556	2	295	0	0	1	57	0	0
210080	14	3713	2	419	0	0	6	2042	0	0
290010	1	53	2	825	0	0	0	0	4	195
290030	2	170	0	0	0	0	3	53	0	0
290050	9	914	0	0	0	0	73	1338	9	232
310080	2	749	2	72	0	0	14	459	0	0
390050	150	1375	28	568	23	133	17	259	6	41
400060	0	0	0	0	0	0	1	99	0	0
400080	20	278	209	2831	4	146	13	204	12	187
900060	0	0	0	0	0	0	1	44	0	0
900080	105	2350	64	716	1	4	103	2136	3	24
8461100060	0	0	0	0	0	0	0	0	0	0
100080	8	928	42	1125	23	200	87	800	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	5	99	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	4	152	0	0
401050	5	855	2	115	0	0	0	0	0	0
401070	0	0	5	219	0	0	2	452	2	1008
401090	20	7022	19	9075	0	0	6	496	0	0
405060	2	183	22	924	0	0	2	82	0	0
500050	0	0	0	0	0	0	7	101	2	44
500090	130	1524	46	570	4	36	124	1593	157	845
9000000001	51	3763	20	818	4	800	76	1772	5	90
9800000001	227	2398	201	5196	2	14	972	7026	56	508
9900000001	2518	1214	720	485	315	460	5374	2579	162	157
Y-T-D Tot	3369	33258	1513	38945	386	2273	7516	41852	430	4240
NC YTD Tot*	101	10782	57	12169	2	131	153	11909	9	860

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U.S. EXPORTS
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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	7	476	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	1	99	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	2	128	0	0
190090	6	69	0	0	1	170	4	25	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	2	28	0	0	0	0	1	10	1	18
995090	1	50	0	0	0	25	0	0	0	0
8459100000	0	0	2	663	0	0	1	245	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	2	71	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	62	0	0	0	0	2	76	0	0
610080	3	1406	0	0	1	125	3	3850	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	11	1	187	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	87	0	0
700080	3	11	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	3	430	0	0	3	1057	1	312	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	755	3	222	4	155	30	1115	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	16	159	2	7	0	0	5	64	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	19	11	110	25	332	16	193	10	62
900060	0	0	0	0	0	0	0	0	0	0
900080	10	175	16	222	31	294	20	252	15	126
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	4	705
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	1	7	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1425	1	575	0	0	0	0
405060	0	0	0	0	11	328	1	10	0	0
500050	0	0	16	184	0	0	0	0	0	0
500090	0	0	12	124	1	18	40	707	2	14
9000000001	100	1654	27	1273	42	376	55	555	1	4
9800000001	42	1356	52	421	106	488	38	295	51	170
9900000001	926	466	506	366	629	387	370	313	260	303
Y-T-D Tot	1145	7460	650	5203	881	4577	611	9491	351	1658
NC YTD Tot*	16	2395	42	1454	4	1182	23	5381	2	122

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - September 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	100	0	0	0	0	9	630	1	176
8457100015	2	459	0	0	0	0	0	0	5	881
100025	0	0	0	0	0	0	0	0	1	125
100035	5	2056	0	0	0	0	5	1455	3	816
100045	16	1147	0	0	6	367	4	262	6	365
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	1	5284	0	0
300090	0	0	0	0	0	0	2	1760	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	102	7182	0	0	0	0	9	739	7	697
110050	2	203	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	46	783	0	0	4	64	1	15	3	18
190050	2	89	0	0	0	0	0	0	0	0
190070	6	327	0	0	0	0	3	236	0	0
190090	16	135	0	0	1	3	7	28	26	173
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	5	163	0	0	0	0	0	0	4	137
995090	16	468	0	0	2	1509	1	33	3	97
8459100000	0	0	0	0	2	208	2	136	1	142
210080	4	427	0	0	0	0	4	260	15	1384
290040	0	0	0	0	0	0	0	0	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	10	702	0	0	0	0	2	174	2	255
290090	8	76	0	0	15	69	7	57	89	409
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	1	185	0	0	0	0	6	337	6	254
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	2	200	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	76
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	151
510080	0	0	0	0	0	0	0	0	2	84
590030	5	116	0	0	0	0	3	117	19	725
610080	0	0	0	0	5	580	1	100	0	0
690050	0	0	0	0	0	0	20	490	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	271	0	0	1	14	4	51	6	343
700020	5	136	0	0	0	0	0	0	6	150
700080	11	215	0	0	52	676	7	29	84	566
8460110080	0	0	0	0	0	0	2	55	14	400
190010	0	0	0	0	1	16	4	139	20	240
190050	2	393	0	0	0	0	1	226	0	0
210080	6	1754	0	0	0	0	7	1810	7	1587
290010	9	489	0	0	0	0	0	0	1	55
290030	2	69	0	0	0	0	15	472	0	0
290050	7	315	0	0	0	0	24	1148	3	547
310080	0	0	0	0	0	0	1	713	11	1457
390050	47	343	0	0	0	0	115	760	38	318
400060	0	0	0	0	0	0	0	0	0	0
400080	15	240	14	3208	1	5	73	944	93	964
900060	0	0	0	0	0	0	0	0	3	284
900080	42	1007	0	0	22	229	47	934	85	1151
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	24	0	0	1	50	9	717	24	1094
200010	0	0	0	0	0	0	7	160	1	157
200090	3	26	0	0	0	0	0	0	2	140
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	3	35
401050	1	301	8	466	0	0	3	569	0	0
401070	0	0	0	0	0	0	0	0	1	38
401090	0	0	4	2698	5	405	7	2956	0	0
405060	3	34	0	0	0	0	2	115	2	57
500050	3	163	0	0	0	0	0	0	0	0
500090	104	1381	1	34	0	0	42	745	117	1641
9000000001	52	2412	0	0	9	98	16	146	231	2378
9800000001	113	2377	0	0	37	675	249	6217	575	5947
9900000001	2796	993	0	0	596	228	1577	692	4612	4166
Y-T-D Tot	3482	37622	27	6405	766	5699	2301	34213	6146	32413
NC YTD Tot*	173	24198	0	0	12	1057	47	11174	106	10992

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	248	7500
8462100030	Headers and upsetters, including cold headers	45	15824
100050	Forging or die stamping machines, and hammers, n.e.c.	242	21149
210080	Bending, folding, straight. or flat. mach., incl presses, NC	250	24434
290030	Press brakes, non-NC	127	2834
290040	Bending rolls, non-NC	63	1400
290050	Bending, folding, straight., or flat., n.e.c., non-NC	964	23897
310080	Shearing machines, NC	66	6024
390050	Shearing machines, non-NC	262	7164
410080	Punching or notching mach., incl. comb. punch & shear, NC	129	18559
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	655	16993
910060	Hydraulic presses, NC	59	4214
910090	Hydraulic presses, non-NC	498	20710
990030	Presses, n.e.c., NC	125	10380
990040	Presses, mechanical, non-NC	84	8796
990060	Presses, n.e.c., non-NC	932	30093
8463100080	Draw benches for bars, tubes, profiles, wire or the like	166	4562
200080	Thread rolling machines	48	2146
300080	Machines for working wire	568	17372
900080	Metal forming machine tools, n.e.c.	1309	42932
9800000002	Used or rebuilt machine tools	2649	49024
9900000002	Machine tools valued at less than $2,500	10742	8207
	Y-T-D Forming Total	20231	344212
	NC Y-T-D Forming Total	629	63611
	Cutting and Forming Totals:		
	Y-T-D Total	60687	798095
	NC Y-T-D Total*	2015	259276

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	536401
2000000000	Parts for working rubber or plastics - heading 8477	0	210730
2710003070	Quenching or cutting oils	0	17187
8428900010	Industrial robots for lifting, handling, loading or unload	272	5422
8431390090	Parts industrial robots, handling and loading - heading 8428	0	55111
8456100000	Laser, light or photon beam for working any material	694	34402
200000	Ultrasonic process for working any material	66	1702
8477106010	Injection molding mach., for rubber or oth. thermosetting	234	11163
106070	Injection molding mach., for thermoplastics	327	39177
200010	Extruders for rubber or other thermosetting materials	267	10614
200050	Extruders for processing thermoplastics	650	33279
300000	Blow molding machines	477	35131
400000	Vacuum-molding and other thermoforming machines	4561	11707
510010	Machines for molding or retreading pneumatic tires	797	14427
510090	Machines for molding or otherwise forming inner tubes	321	27179
590000	Machines for molding or otherwise forming n.e.c.	1008	18398
800000	Machines for working rubber or plastics n.e.c.	4223	83938
8479899040	Industrial robots, n.e.c.	4746	43635
908040	Industrial robot parts	0	23010
8537100030	Numerical controls for controlling machine tools	1573	23429
9024100000	Machines and appliances for testing metals	0	57904
9031100000	Machines for balancing mechanical parts	0	21711
300000	Profile projectors	0	5788
9032810040	Industrial process control instr., hydraulic or pneumatic	508772	35882

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	21	7	40	2	22	1	13	10	3253
8462100030	0	0	0	0	0	0	0	0	3	430
210050	1	67	0	0	2	90	1	51	22	2398
210080	21	1686	0	0	0	0	4	149	54	7776
290030	0	0	0	0	0	0	6	251	96	1687
290040	1	8	0	0	1	29	0	0	23	440
290050	10	153	1	90	0	0	6	68	252	4195
310080	3	179	0	0	0	0	0	0	15	2404
390050	7	106	0	0	15	238	0	0	76	1630
410080	1	34	0	0	0	0	3	339	24	2983
490050	16	106	2	960	16	194	54	690	145	2058
910060	1	10	0	0	0	0	1	14	7	1567
910090	5	88	1	13	4	1043	0	0	32	1562
990030	0	0	0	0	0	0	0	0	26	1915
990040	1	558	1	566	0	0	0	0	14	648
990060	10	392	1	22	0	0	35	1329	92	1446
8463100080	8	100	0	0	9	127	8	269	23	892
200080	1	86	0	0	0	0	2	155	15	321
300080	5	202	3	54	1	25	74	1063	45	1110
900080	18	523	10	390	0	0	12	455	142	2343
9800000002	10	242	0	0	12	338	10	466	553	9915
9900000002	285	155	36	28	486	434	300	187	1599	1466
Y-T-D Tot	413	4714	62	2164	548	2539	517	5496	3268	52439
NC YTD Tot	26	1908	0	0	0	0	8	501	126	16645
C&F YTD	1910	18705	195	2391	1062	19726	1094	16945	8129	145518
C&F NC YTD*	44	9046	1	23	136	15345	21	2717	439	69072

Other Manufacturing Technology

1000000000	0	10836	0	1265	0	6526	0	8322	0	119375
2000000000	0	7520	0	787	0	4446	0	5268	0	55986
2710003070	0	208	0	5	0	16	0	25	0	832
8428900010	3	62	0	0	1	15	0	0	50	1910
8431390090	0	2907	0	86	0	514	0	1976	0	12832
8456100000	1	67	0	0	8	288	3	450	23	1702
200000	1	14	0	0	1	202	0	0	7	140
8477106010	1	38	0	0	1	82	112	2244	8	446
106070	6	366	8	951	0	0	14	1732	85	12949
200010	4	102	0	0	0	0	0	0	172	5496
200050	4	727	1	41	3	405	18	1530	125	3478
300000	44	964	0	0	2	215	8	2680	17	4225
400000	16	166	0	0	6	51	15	458	42	3210
510010	7	1316	0	0	135	82	9	296	35	2696
510090	6	201	0	0	1	421	0	0	0	0
590000	10	108	5	113	43	715	2	76	57	2677
800000	59	1152	3	44	46	890	33	393	776	26931
8479899040	11	61	0	0	6	130	2	76	3199	24646
908040	0	67	0	16	0	54	0	4	0	11569
8537100030	18	188	2	32	12	172	5	141	88	1107
9024100000	0	828	0	170	0	427	0	1203	0	6752
9031100000	0	258	0	0	0	129	0	253	0	7497
300000	0	27	0	0	0	0	0	233	0	383
9032810040	17192	1195	9154	468	10421	533	265	27	18452	1469

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	37	1699	17	169	40	290	9	42	0	0
8462100030	0	0	3	1742	0	0	0	0	2	514
100050	1	166	0	0	2	105	0	0	3	777
210080	0	0	9	388	0	0	3	576	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	9	95
290050	7	647	31	818	11	1013	192	3306	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	19	832	3	55	0	0	0	0
410080	2	2624	19	2568	0	0	0	0	5	347
490050	56	1310	6	389	9	136	1	7	30	726
910060	1	5	0	0	0	0	0	0	0	0
910090	20	679	8	181	0	0	1	20	12	184
990030	0	0	13	1294	0	0	0	0	4	611
990040	6	651	5	1157	0	0	0	0	0	0
990060	1	60	3	21	4	83	0	0	9	191
8463100080	4	355	8	218	2	83	0	0	0	0
200080	1	20	0	0	2	51	0	0	0	0
300080	14	819	25	337	0	0	0	0	43	694
900080	10	1667	18	988	40	604	0	0	24	2627
9800000002	118	1397	81	1225	83	3343	35	1686	37	414
9900000002	81	49	210	160	185	129	0	0	108	82
Y-T-D Tot	364	12315	476	12534	381	5893	241	5636	288	7276
NC YTD Tot	3	2629	41	4251	0	0	3	576	9	958
C&F YTD	556	27867	1462	19651	1077	22489	335	5809	1620	20479
C&F NC YTD*	41	11914	91	7504	22	8051	3	576	57	5081
Other Manufacturing Technology										
1000000000	0	7061	0	18705	0	2908	0	1164	0	11993
2000000000	0	5581	0	4028	0	4393	0	349	0	2657
2710003070	0	14	0	70	0	0	0	291	0	24
8428900010	18	178	37	893	0	0	0	0	14	165
8431390090	0	492	0	1110	0	615	0	100	0	378
8456100000	15	506	22	1894	0	0	0	0	64	2218
200000	0	0	3	40	0	0	0	0	3	47
8477106010	0	0	0	0	0	0	0	0	5	294
106070	0	0	3	146	0	0	1	242	3	249
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	10	729	27	2493	1	72	13	443
300000	0	0	5	482	30	2123	0	0	3	17
400000	8	159	4	422	0	0	0	0	0	0
510010	0	0	3	97	2	106	52	66	11	483
510090	1	72	5	702	4	916	2	17	1	7
590000	1	150	51	753	41	526	0	0	30	830
800000	226	10973	52	1446	68	1340	9	148	15	931
8479899040	1	58	125	903	3	19	0	0	111	1997
908040	0	43	0	602	0	5	0	0	0	267
8537100030	1	16	208	2932	3	41	0	0	67	1015
9024100000	0	1893	0	1340	0	237	0	371	0	1631
9031100000	0	94	0	160	0	1443	0	19	0	81
300000	0	0	0	535	0	0	0	0	0	189
9032810040	5226	307	21298	2970	23474	219	279	18	28780	2037

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	86	12	681	6	27	13	171	3	48
8462100030	21	9267	1	556	0	0	0	0	0	0
100050	24	3297	30	1687	1	107	20	1263	0	0
210080	8	1304	23	1424	7	259	46	2516	6	365
290030	3	55	0	0	0	0	8	241	0	0
290040	0	0	0	0	0	0	14	314	0	0
290050	37	792	59	1873	13	164	106	3652	9	329
310080	12	1128	3	700	0	0	12	623	15	659
390050	0	0	5	88	2	36	61	1282	0	0
410080	0	0	2	816	0	0	19	1478	21	2618
490050	66	1600	6	65	12	342	61	1036	6	55
910060	2	92	3	141	0	0	14	668	0	0
910090	5	133	19	4002	0	0	243	5739	6	302
990030	4	678	18	932	9	661	1	140	0	0
990040	2	261	1	45	0	0	5	120	4	252
990060	64	3435	42	6201	0	0	417	4961	29	328
8463100080	1	36	1	102	0	0	12	272	0	0
200080	0	0	0	0	0	0	5	679	1	132
300080	19	440	11	653	3	68	80	1528	4	134
900080	69	3170	37	948	34	2611	217	3909	45	997
9800000002	63	2125	103	6712	4	69	796	8702	7	435
9900000002	1071	504	209	133	0	0	2299	2109	148	117
Y-T-D Tot	1473	28404	585	27759	91	4344	4449	41401	304	6772
NC YTD Tot	26	3201	49	4013	16	920	92	5424	42	3642
C&F YTD	4842	61662	2098	66704	477	6617	11965	83253	734	11012
C&F NC YTD*	127	13983	106	16182	18	1051	245	17333	51	4502
Other Manufacturing Technology										
1000000000	0	49820	0	21564	0	4221	0	35730	0	5935
2000000000	0	7395	0	5311	0	1686	0	18686	0	3978
2710003070	0	241	0	74	0	41	0	341	0	92
8428900010	12	157	3	49	[illegible]	4	10	63	0	0
8431390090	0	1351	0	1329	0	102	0	5168	0	811
8456100000	271	13926	9	263	21	603	16	367	16	815
200000	2	25	0	0	0	0	3	60	1	13
8477106010	0	0	5	496	0	0	89	6679	0	0
106070	8	1766	3	224	0	0	79	8175	4	782
200010	0	0	2	185	0	0	41	2946	0	0
200050	44	2889	52	804	3	88	83	2152	3	242
300000	6	4202	33	3444	0	0	102	7217	0	0
400000	365	947	35	1849	3	16	3954	2842	0	0
510010	25	584	4	521	11	272	62	1115	0	0
510090	8	316	20	2871	4	16	75	547	3	15
590000	173	2499	54	1687	11	30	195	1664	7	122
800000	121	3113	113	3710	36	449	1677	11889	127	775
8479899040	83	930	60	498	8	175	66	684	19	173
908040	0	1352	0	3303	0	18	0	190	0	100
8537100030	32	560	55	726	6	80	21	856	14	156
9024100000	0	9721	0	11672	0	213	0	1234	0	322
9031100000	0	293	0	6035	0	10	0	2205	0	33
300000	0	2495	0	723	0	0	0	69	0	37
9032810040	18681	6910	23663	1211	102	5	10699	894	73809	3854

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	1	27	10	33
8462100030	0	0	1	438	0	0	0	0	0	0
100050	1	140	10	923	2	105	6	708	2	101
210080	3	151	1	31	1	30	12	556	0	0
290030	0	0	7	294	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	17	802	1	19	11	243	24	1029	12	341
310080	0	0	0	0	0	0	1	53	0	0
390050	2	62	0	0	2	286	2	28	0	0
410080	1	110	1	50	0	0	6	454	0	0
490050	8	633	3	1098	1	9	5	332	20	211
910060	0	0	3	97	1	35	0	0	2	98
910090	2	23	22	305	2	22	8	131	11	1788
990030	1	323	20	321	0	0	5	596	2	57
990040	7	300	0	0	1	120	16	749	0	0
990060	3	70	0	0	3	531	70	2440	0	0
8463100080	0	0	5	124	4	93	1	426	18	162
200080	0	0	9	216	0	0	6	197	0	0
300080	6	142	18	648	2	34	5	137	8	353
900080	13	258	1	169	2	120	21	2635	5	282
9800000002	32	1530	20	422	2	51	56	934	10	225
9900000002	285	291	8	7	251	210	87	61	69	39
Y-T-D Tot	382	4838	130	5163	285	1889	332	11494	169	3690
NC YTD Tot	5	584	25	499	2	65	24	1659	4	155
C&F YTD	1527	12298	780	10366	1166	6466	943	20985	520	5348
C&F NC YTD*	21	2979	67	1953	6	1247	47	7040	6	277

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	9900	0	[illegible]	0	4868	0	8265	0	3501
2000000000	0	1857	0	[illegible]	0	1384	0	2809	0	2135
2710003070	0	317	0	29	0	22	0	866	0	93
8428900010	18	77	0	0	2	330	0	0	0	0
8431390090	0	1449	0	21	0	174	0	560	0	36
8456100000	4	99	10	221	9	362	31	3595	0	0
200000	0	0	9	237	0	0	0	0	0	0
8477106010	6	450	0	0	0	0	0	0	0	0
106070	2	156	3	697	4	170	2	608	0	0
200010	0	0	0	0	0	0	6	836	0	0
200050	5	700	1	1643	0	0	10	376	1	1569
300000	0	0	10	977	7	571	37	965	39	665
400000	1	10	1	9	9	14	4	29	0	0
510010	3	58	28	784	2	3	2	34	0	0
510090	1	8	0	0	50	45	20	488	6	148
590000	4	56	13	152	40	450	20	798	7	115
800000	63	1127	10	610	32	370	32	470	8	288
8479899040	56	380	13	676	193	1868	7	209	0	0
908040	0	306	0	157	0	346	0	320	0	0
8537100030	42	592	9	90	15	210	8	135	11	111
9024100000	0	767	0	1485	0	867	0	1237	0	36
9031100000	0	312	0	93	0	54	0	267	0	17
300000	0	120	0	21	0	66	0	414	0	0
9032810040	18381	1275	12180	667	942	121	8526	[illegible]	77454	431

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	19	270	0	0	0	0	6	61	43	546
8462100030	0	0	0	0	0	0	13	1818	1	1060
100050	77	6867	0	0	2	80	11	695	24	1522
210080	18	725	0	0	1	28	3	402	30	6069
290030	0	0	0	0	0	0	0	0	7	306
290040	0	0	0	0	2	70	0	0	11	365
290050	16	283	0	0	1	35	58	1772	88	2261
310080	2	93	0	0	0	0	0	0	3	186
390050	31	800	0	0	1	12	8	1055	24	521
410080	9	2101	0	0	0	0	7	798	9	1241
490050	47	2242	2	132	0	0	15	265	68	2394
910060	16	1266	0	0	0	0	1	39	7	181
910090	26	567	11	419	3	46	9	260	48	3203
990030	4	279	1	136	2	50	0	0	15	2384
990040	6	1875	0	0	0	0	3	625	12	870
990060	53	1813	0	0	5	127	28	3115	63	3526
8463100080	24	622	0	0	5	250	19	211	14	219
200080	2	109	0	0	0	0	1	48	3	132
300080	41	933	0	0	5	110	93	4519	63	3370
900080	271	7398	0	0	4	151	102	2123	214	8564
9800000002	112	924	0	0	13	351	76	1595	416	5921
9900000002	902	526	5	7	184	109	732	583	1202	822
Y-T-D Tot	676	29693	19	695	228	1418	1185	19984	2365	45663
NC YTD Tot	49	4464	1	136	3	79	11	1239	64	10062
C&F YTD	5158	67315	46	7100	994	7118	3486	54197	8511	78076
C&F NC YTD*	222	28661	1	136	15	1136	58	12413	170	21053

Other Manufacturing Technology

1000000000	0	59499	0	1234	0	7325	0	51759	0	80269
2000000000	0	10693	0	644	0	3661	0	16236	0	39790
2710003070	0	66	0	0	0	82	0	212	0	13225
8428900010	27	335	0	0	0	0	26	586	48	599
8431390090	0	2574	0	517	0	540	0	556	0	18914
8456100000	36	1454	1	17	0	0	38	3162	96	2395
200000	16	375	0	0	0	0	6	189	14	359
8477106010	2	199	0	0	2	65	1	80	2	90
106070	23	2085	19	3059	2	171	20	2123	38	2526
200010	4	63	0	0	2	53	2	17	34	916
200050	26	872	36	4230	0	0	60	1236	[illegible]	5477
300000	11	1962	0	0	1	24	36	632	86	3767
400000	12	178	0	0	2	63	1	1069	83	215
510010	21	764	0	0	24	510	23	612	338	4031
510090	12	11	3	84	0	0	6	117	93	20176
590000	75	1083	1	15	0	0	71	2012	97	1768
800000	122	4466	0	0	100	58	152	1942	343	10425
8479899040	74	719	1	46	1	6	543	7773	164	1608
908040	0	1457	0	0	0	44	0	2110	0	680
8537100030	591	8779	0	0	0	0	171	2623	194	2866
9024100000	0	5605	0	252	0	171	0	4804	0	4665
9031100000	0	272	0	0	0	250	0	594	0	1342
300000	0	53	0	0	0	0	0	214	0	210
9032810040	50286	4562	381	29	4767	547	33970	2008	40390	3081

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
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EUROPE

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
Bulgaria	2	362	0	0	2	362
Czechoslovakia	9	279	0	0	9	279
Denmark	62	1077	29	186	91	1263
East Germany	0	0	2	359	2	359
Finland	178	119	56	1065	234	1185
Greece	326	790	51	4764	377	5554
Hungary	9	294	10	477	19	771
Iceland	0	0	0	0	0	0
Ireland	43	1015	64	524	107	1539
Luxembourg	1	5	5	5	6	9
Norway	86	672	18	176	104	848
Poland	15	22	12	1425	27	1448
Portugal	17	1225	75	2540	92	3766
Romania	250	21	39	5	289	26
Sweden	241	3129	117	2023	358	5153
Turkey	75	298	27	266	102	564
Yugoslavia	5	1306	7	284	12	1591
Oth Europe	1	53	4	3	5	56
TOTAL	12056	140662	5489	102813	17545	243474

NORTH AND CENTRAL AMERICA

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
Bahamas	1	15	0	0	1	15
Barbados	1	10	9	146	10	156
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	257	757	39	144	296	900
Dominican Rep	45	265	181	2267	226	2533
El Salvador	40	209	11	155	51	363
Guatemala	13	32	19	79	32	111
Haiti	4	21	7	59	11	80
Honduras	121	452	30	393	151	845
Jamaica	24	85	36	558	60	642
Panama	66	144	10	242	76	386
Trinidad	18	36	7	183	25	219
Oth N & C Am.	56	184	76	258	132	442
TOTAL	13054	137170	8146	98327	21200	235497

SOUTH AMERICA

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
Argentina	29	686	26	484	55	1170
Bolivia	1	6	0	0	1	6
Chile	192	3225	224	1934	416	5159
Colombia	152	767	131	1629	283	2396
Ecuador	71	444	14	125	85	569
Paraguay	0	0	0	0	0	0
Peru	116	274	39	390	155	665
Uruguay	0	0	0	0	0	0
Oth South Am.	5	109	0	0	5	109
TOTAL	1909	22658	1179	11477	3088	34135

OCEANIA

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
New Zealand	49	310	50	1088	99	1398
Oth Oceania	54	26	2	67	56	93
TOTAL	1600	14327	465	5868	2065	20195

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 – September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	2111	4133	312	1816	2423	5949
Iran	0	0	22	47	22	47
Iraq	7	537	60	5896	67	6433
Israel	224	2698	80	1765	304	4463
Jordan	1	3	2	14	3	18
Kuwait	4	61	8	293	12	354
Laos	0	0	0	0	0	0
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	7	19	0	0	7	19
Pakistan	25	467	0	0	25	467
Philippines	424	939	200	3089	624	4028
Qatar	0	0	0	0	0	0
Saudi Arabia	203	454	88	3276	291	3729
Sri Lanka	2	52	0	0	2	52
Syria	1	5	1	6	2	11
United Arab Emr	53	151	42	166	95	317
Vietnam	0	0	0	0	0	0
Oth Asia	3	24	12	173	15	197
TOTAL	11422	134951	4865	120930	16287	255881
AFRICA						
Algeria	0	0	3	3184	3	3184
Botswana	0	0	0	0	0	0
Egypt	53	731	41	908	94	1639
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	102	358	1	4	103	362
South Africa	239	2757	39	555	278	3313
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	1	6	2	223
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	7	14	1	42	8	56
Oth Africa	13	39	0	0	13	39
TOTAL	415	4116	87	4797	502	8913

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. – Not elsewhere classified.
* "MC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

RELEASED: December 5, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines. NC *	652	43717	45	3402
301050	Electro-discharge machines, n.e.c., NC	273	16279	19	1834
301070	Electro-discharge machines, n.e.c., non-NC	283	6999	20	783
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1605	127356	90	8173
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	103	20263	12	1800
100035	Horiz. mach. ctrs., ATC	487	110587	35	9140
100045	Mach. ctrs., n.e.c.	188	58178	10	8479
200010	Unit construction mach. (single station transfer), NC	16	1822	2	375
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	43	31859	8	11143
300090	Multi-station transfer machines, non-NC	72	31126	3	3306
8458110010	Horiz. lathes, multiple spindle, NC	227	39912	21	3989
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1752	123971	124	9295
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	442	62694	45	6084
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	44	13011	4	743
190030	Horiz. engine or toolroom lathes, non-NC	3055	32845	217	2418
190050	Automatic bar and/or chucking mach., single spindle, non-NC	668	12627	37	509
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	102	8243	7	567
190090	Horiz. lathes, n.e.c., non-NC	1333	12669	134	1323
911060	Vertical turret lathes, multiple spindle, NC	21	3751	0	0
911080	Vertical turret lathes, n.e.c., NC	44	8350	1	477
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	76	7482	3	213
991050	Vertical turret lathes, non-NC	72	3944	3	174
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	880	18038	102	2295
8459100000	Way-type unit head machines	5	1718	1	109
210080	Other drilling machines, NC	250	16861	29	1604
290040	Drilling machines, multiple spindle, non-NC	60	1771	3	113
290050	Drilling machines, radial, non-NC	346	2546	9	95
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729	0	0
290090	Drilling machines, n.e.c., non-NC	386	12659	8	455
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	68	10293	11	1796
310070	Boring-milling mach., n.e.c., NC	30	2256	3	159
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	92	5889	7	978
400040	Boring machines, vertical, NC	1	59	1	59
400050	Boring machines, vertical, non-NC	41	1537	4	62
400070	Boring machines, n.e.c., NC	27	3282	0	0
400080	Boring machines, n.e.c., non-NC	170	5316	26	440
510080	Milling machines, knee type, NC	446	7659	29	899
590030	Milling machines, knee type, non-NC	2579	18658	199	1586
610080	Milling machines, excl. knee type, n.e.c., NC	424	18771	25	2648
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	48	3238	7	1131
690090	Milling machines, n.e.c., non-NC	625	16809	103	1120
700020	Threading or tapping machines, n.e.c., NC	127	6603	4	235
700080	Threading or tapping machines, n.e.c., non-NC	145	4374	11	481
8460110080	Flat surface grinding mach., NC	110	9924	6	724
190010	Flat surface grinding mach., recip.-table type, non-NC	852	10391	73	509
190050	Flat surface grinding mach., n.e.c., non-NC	1518	15446	148	2127
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	398	69335	50	7909
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	359	13452	33	1728
290030	Grinding mach., internal cylindrical, non-NC	177	10608	24	2246
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	879	36403	39	2708
310080	Sharpening machines (tool & cutter grinding), NC	189	4954	22	319
390050	Sharpening machines (tool & cutter grinding), non-NC	626	7779	52	1109
400060	Honing or lapping machines, NC	32	4164	3	242
400080	Honing or lapping machines, non-NC	187	7564	8	499
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	43	3436	9	1821
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1172	33284	149	3580
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	83	2974	0	0
200090	Shaping or slotting machines, non-NC	152	6186	7	1643
300060	Broaching machines, NC	8	8396	4	1054
300080	Broaching machines, non-NC	68	3563	2	539
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	95	8064	2	775
401040	Gear shapers	23	7025	3	273
401060	Gear cutting machines, n.e.c.	155	570	48	9
405050	Gear grinding or finishing for bevel gears	60	1679	1	316
405070	Gear grinding or finishing machines, n.e.c.	76	19888	15	3252
500050	Sawing or cutting-off machines, NC	84	5465	6	521
500090	Sawing or cutting-off machines, non-NC	1579	26857	102	1773
9000000001	Metal cutting machine tools, n.e.c.	262	12131	13	2432
9800000001	Used or rebuilt machine tools	4868	25136	374	2859
9900000001	Machine tools valued at less than $2,500	666927	69147	76066	6170
	Cutting Total			78681	137632
	Y-T-D Cutting Total	699434	1364256		
	NC Y-T-D Cutting Total	8316	848108		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – September 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	1543
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	185	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	17	151	0	0	0	0	0	0
190050	0	0	2	24	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	4
190090	0	0	65	386	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	2	12
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	7	0	0	0	0	1	27
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	7	0	0	1	37
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	4	62
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	7	124	5	13	10	83
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	396
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	2	69	1	107	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	3	28
190050	0	0	0	0	3	10	0	0	1	13
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	6	39	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	4	10	2	81	1	140
310080	0	0	0	0	1	2	0	0	0	0
390050	0	0	0	0	7	22	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	8
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	3	68
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	4	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
40104	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	1	3	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	29	756	1	4	0	0
9000000001	0	0	0	0	0	0	0	0	2	20
9800000001	2	393	1	20	11	238	1	6	1	2
9900000001	0	0	0	0	25	30	70	16	1111	188
Month Tot	2	393	86	587	98	1314	82	412	1148	2631
Y-T-D Tot	45	1626	1762	10082	1322	16528	1506	20416	26699	44124
NC YTD Tot	2	110	5	537	33	3262	77	8853	110	14821

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	21	1803	0	0	0	0	0	0	0	0
301050	13	1384	0	0	0	0	0	0	0	0
301070	1	59	0	0	0	0	0	0	1	70
8457100015	60	6060	0	0	8	565	0	0	0	0
100025	6	1336	0	0	0	0	0	0	0	0
100035	34	9016	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	2	375	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	7	10898	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	17	2975	0	0	0	0	0	0	0	0
110030	100	7845	1	71	0	0	0	0	0	0
110050	40	5651	0	0	0	0	0	0	0	0
110090	3	452	0	0	0	0	0	0	0	0
190030	2	66	25	278	17	207	2	121	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	1	515	0	0	0	0	0	0	0	0
190090	3	252	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	1	477	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	186	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	4	826	8	323	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	28	1428	0	0	0	0	0	0	0	0
290040	1	106	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	5	405	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	119	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	1	247	0	0	0	0	0	0	0	0
590030	1	394	0	0	0	0	15	126	0	0
610080	4	1960	0	0	2	82	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	1	56	0	0	0	0	0	0	0	0
700020	4	235	0	0	0	0	0	0	0	0
700080	1	133	0	0	0	0	0	0	0	0
8460110080	5	602	0	0	0	0	0	0	0	0
190010	0	0	0	0	25	309	0	0	0	0
190050	9	1031	0	0	0	0	0	0	0	0
210080	28	6491	0	0	0	0	0	0	0	0
290010	5	459	0	0	0	0	0	0	1	17
290030	4	1060	0	0	0	0	0	0	2	800
290050	14	1794	0	0	0	0	2	229	1	3
310080	0	0	0	0	0	0	0	0	0	0
390050	27	948	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	14	0	0	0	0	0	0	0	0
900060	2	280	0	0	0	0	0	0	0	0
900080	47	2071	0	0	0	0	1	13	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	6	1639	0	0	0	0	0	0	0	0
300060	4	1054	0	0	0	0	0	0	0	0
300080	2	539	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	6	521	0	0	0	0	0	0	0	0
500090	11	310	0	0	0	0	0	0	0	0
9000000001	5	1830	0	0	0	0	0	0	0	0
9800000001	291	740	0	0	0	0	5	81	0	0
9900000001	2772	471	735	65	72	12	25	6	114	28
Month Tot	3602	76786	771	1112	124	1174	50	575	120	927
Y-T-D Tot	45335	662223	9396	14801	861	14838	1689	20695	1949	12164
NC YTD Tot	4851	560323	117	7894	142	7475	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - September 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	6	890	0	0	0	0	0	0	18	709
301050	4	407	0	0	2	43	0	0	0	0
301070	4	486	2	43	11	26	0	0	1	99
8457100015	0	0	6	388	15	963	1	198	0	0
100025	0	0	6	464	0	0	0	0	0	0
100035	0	0	0	0	1	125	0	0	0	0
100045	0	0	0	0	0	0	5	6936	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	1	245	0	0
300090	1	89	0	0	0	0	2	3217	0	0
8458110010	0	0	0	0	0	0	4	1013	0	0
110030	0	0	3	188	7	472	1	110	12	609
110050	0	0	2	103	1	145	0	0	0	0
110090	0	0	0	0	0	0	1	291	0	0
190030	0	0	41	315	23	382	0	0	90	899
190050	2	243	14	94	1	6	0	0	18	143
190070	0	0	5	48	0	0	0	0	0	0
190090	1	60	29	151	9	296	0	0	27	178
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	27
991050	1	162	0	0	0	0	0	0	0	0
995090	0	0	2	88	0	0	10	570	78	488
8459100000	0	0	0	0	1	109	0	0	0	0
210080	0	0	0	0	0	0	1	176	0	0
290040	0	0	0	0	0	0	2	7	0	0
290050	0	0	0	0	0	0	0	0	7	60
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	5	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	299	5	1364	5	134
310070	0	0	0	0	1	6	1	33	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	693	6	285	0	0
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	50	0	0	1	103	2	67	0	0
510080	0	0	5	209	7	307	0	0	16	136
590030	2	50	120	649	0	0	9	161	52	206
610080	0	0	6	88	0	0	0	0	12	121
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	5	152	0	0	1	933	0	0
690090	1	27	58	244	2	157	4	347	34	114
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	4	1	260	8	83	0	0
8460110080	1	123	0	0	0	0	0	0	0	0
190010	0	0	22	84	1	4	21	81	1	3
190050	3	234	128	786	0	0	1	2	3	51
210080	3	176	0	0	6	780	12	435	1	26
290010	3	242	3	81	0	0	15	890	0	0
290030	2	276	0	0	0	0	0	0	16	110
290050	0	0	5	31	3	23	1	107	6	289
310080	0	0	3	17	0	0	12	252	6	48
390050	1	9	8	48	4	22	2	32	3	28
400060	0	0	0	0	2	69	1	173	0	0
400080	0	0	0	0	1	11	4	465	0	0
900060	0	0	0	0	0	0	7	1541	0	0
900080	5	84	0	0	17	101	47	1008	28	229
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	20	1	756	0	0
401040	0	0	0	0	0	0	3	273	0	0
401060	47	6	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	1	316	0	0
405070	4	2447	0	0	0	0	1	18	10	787
500050	0	0	0	0	0	0	0	0	0	0
500090	1	47	9	103	5	34	23	269	23	250
9000000001	0	0	0	0	0	0	5	573	1	10
9800000001	3	88	1	18	35	386	12	779	11	108
9900000001	121	25	65736	4300	47	41	230	162	5008	827
Month Tot	217	6221	66220	8694	207	5884	464	24174	5490	6747
Y-T-D Tot	1803	68639	516654	95488	4528	74950	10787	248892	75098	58790
NC YTD Tot	312	25379	693	21545	589	48382	804	124701	477	18291

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	312	18726	21	1139
8462100030	Headers and upsetters, including cold headers	128	12848	20	3331
100050	Forging or die stamping machines, and hammers, n.e.c.	655	37277	124	5597
210080	Bending, folding, straight. or flat. mach., incl presses, NC	440	28531	45	3216
290030	Press brakes, non-NC	238	6637	13	404
290040	Bending rolls, non-NC	76	2025	1	11
290050	Bending, folding, straight., or flat., n.e.c., non-NC	973	32128	102	2201
310080	Shearing machines, NC	50	3883	1	187
390050	Shearing machines, non-NC	467	13763	39	2217
410080	Punching or notching mach., incl. comb. punch & shear, NC	271	27823	26	1510
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	530	9804	37	892
910060	Hydraulic presses, NC	17	18521	2	5492
910090	Hydraulic presses, non-NC	2280	14633	351	1785
990030	Presses, n.e.c., NC	49	4438	3	706
990035	Mechanical transfer presses, non-NC	12	14836	0	0
990045	Mechanical presses, n.e.c., non-NC	75	3900	5	198
990060	Presses, n.e.c., non-NC	595	25371	55	2219
8463100080	Draw benches for bars, tubes, profiles, wire or the like	79	4808	40	2653
200080	Thread rolling machines	63	3445	2	170
300080	Machines for working wire	1086	52404	73	4119
900080	Metal forming machine tools, n.e.c.	521	22665	68	2741
9800000002	Used or rebuilt machine tools	1009	14733	108	1714
9900000002	Machine tools valued at less than $2,500	13353	4487	1936	406
	Forming Total			3072	42908
	Y-T-D Forming Total	23279	377687		
	NC Y-T-D Forming Total	827	83196		
	Cutting and Forming Totals:				
	Monthly Total			81753	180539
	Y-T-D Total	722713	1741943		
	NC Y-T-D Total	9143	931305		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	416612	0	42299
2000000000	Parts for working rubber or plastics - heading 8477	0	245490	0	21777
2710003070	Quenching or cutting oils	0	290	0	9
8428900010	Industrial robots for lifting, handling, loading or unload	1552	27385	175	1202
8431390080	Parts industrial robots, handling and loading - heading 8428	0	72121	0	6371
8456101010	Laser, light or photon beam for working metal, NC	139	25690	16	2622
101020	Laser, light or photon beam for working metal, non-NC	67	3641	7	75
105000	Laser, light or photon beam for other materials	105	7483	1	29
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	12	150	5	32
205000	Ultrasonic processes for working other materials	56	195	0	0
8477103000	Injection molding mach., for manufacturing shoes	111	2922	10	833
106010	Injection molding mach., for rubber or oth. thermosetting	602	50872	56	5139
106050	Injection molding mach., for thermoplastics	1955	183270	211	14559
200010	Extruders for rubber or other thermosetting materials	180	13293	16	2576
200050	Extruders for processing thermoplastics	808	51147	74	7194
300000	Blow molding machines	279	37601	25	8388
400000	Vacuum-molding and other thermoforming machines	149	5529	3	40
510010	Machines for molding or retreading pneumatic tires	442	37983	32	2929
510090	Machines for molding or otherwise forming inner tubes	259	11836	6	1521
590000	Machines for molding or otherwise forming n.e.c.	833	42010	26	637
800000	Machines for working rubber or plastics n.e.c.	8401	84942	452	8387
8479899040	Industrial robots, n.e.c.	13273	54189	1375	5651
908040	Industrial robot parts	0	25744	0	1954
8537100030	Numerical controls for controlling machine tools	9329	35118	488	3300
9024100000	Machines and appliances for testing metals	0	9486	0	869
9031100000	Machines for balancing mechanical parts	0	10049	0	898
300000	Profile projectors	0	5116	0	709
9032810020	Industrial process control instr., hydraulic	121840	1753	12089	175
810060	Industrial process control instr., pneumatic	206689	3583	8949	244

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	9	142	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	1	187
100050	0	0	0	0	74	1444	0	0	2	217
210080	0	0	0	0	6	980	0	0	3	297
290030	0	0	0	0	10	342	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	175	5	14	2	10
310080	0	0	0	0	0	0	0	0	0	0
390050	4	82	0	0	9	385	0	0	0	0
410080	0	0	0	0	0	0	1	119	0	0
490050	0	0	0	0	1	20	0	0	1	10
910060	0	0	0	0	0	0	0	0	0	0
910090	2	2	0	0	0	0	0	0	1	15
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	29	1164	0	0	8	63
8463100080	0	0	0	0	1	44	0	0	0	0
200080	0	0	0	0	1	13	0	0	0	0
300080	4	195	0	0	2	7	0	0	1	16
900080	0	0	0	0	5	217	7	157	0	0
9800000002	4	47	0	0	29	471	0	0	0	0
9900000002	0	0	2	2	4	5	0	0	16	13
Month Tot	14	327	2	2	193	5409	13	289	35	828
Y-T-D Tot	450	17872	13	202	1500	48035	308	3107	1581	31941
NC YTD Tot	38	3210	0	0	46	4991	3	139	59	1896
C&F Month	16	720	88	589	291	6723	95	701	1183	3459
C&F Y-T-D	495	19498	1775	10285	2822	64563	1814	23523	28280	76064
C&F NC YTD	40	3320	5	537	79	8253	80	8992	169	16717

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	322	0	5	0	9894	0	781	0	627
2000000000	0	46	0	0	0	3814	0	2731	0	1973
2710003070	0	0	0	0	0	2	0	0	0	0
8428900010	0	0	0	0	3	48	0	0	0	0
8431390080	0	0	0	1	0	1149	0	86	0	41
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	502
106010	0	0	0	0	0	0	9	1373	2	205
106050	0	0	0	0	43	3524	0	0	1	60
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	4	313	0	0	4	3036
300000	0	0	0	0	1	40	2	3453	0	0
400000	0	0	0	0	2	32	0	0	0	0
510010	0	0	0	0	5	115	0	0	16	577
510090	0	0	0	0	2	266	0	0	1	6
590000	0	0	0	0	2	388	0	0	0	0
800000	153	102	0	0	44	624	3	167	10	383
8479899040	0	0	0	0	5	103	50	355	0	0
908040	0	0	0	0	0	22	0	3	0	0
8537100030	0	0	0	0	6	20	0	0	0	0
9024100000	0	0	0	0	0	64	0	0	0	0
9031100000	0	7	0	0	0	5	0	0	0	5
300000	0	0	0	0	0	3	0	0	0	0
9032810020	0	0	0	0	1	7	0	0	0	0
810060	0	0	0	0	60	4	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	762	0	0	0	0	0	0	0	0
8462100030	19	3143	0	0	0	0	0	0	0	0
100050	15	2654	0	0	0	0	0	0	5	14
210080	14	655	0	0	0	0	0	0	0	0
290030	0	0	0	0	3	62	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	7	1128	0	0	0	0	0	0	9	129
310080	1	187	0	0	0	0	0	0	0	0
390050	12	1616	0	0	0	0	0	0	2	34
410080	4	549	0	0	0	0	0	0	0	0
490050	6	587	0	0	0	0	17	169	0	0
910060	1	214	0	0	0	0	0	0	1	5278
910090	4	558	0	0	0	0	0	0	5	10
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	4	120	0	0	0	0	0	0	0	0
990060	10	252	0	0	0	0	0	0	0	0
8463100080	21	2238	0	0	0	0	0	0	0	0
200080	1	157	0	0	0	0	0	0	0	0
300080	47	2661	0	0	0	0	0	0	0	0
900080	12	498	0	0	0	0	1	3	1	66
9800000002	3	544	0	0	0	0	0	0	0	0
9900000002	30	34	2	1	0	0	10	20	11	21
Month Tot	220	18557	2	1	3	62	28	192	34	5553
Y-T-D Tot	3596	145320	21	516	82	133	408	3271	510	23391
NC YTD Tot	368	29614	0	0	1	5	0	0	8	18612
C&F Month	3822	95343	773	1113	127	1237	76	767	154	6480
C&F Y-T-D	48931	807543	9417	15317	943	14970	2097	23965	2459	35556
C&F NC YTD	5219	589938	117	7894	143	7480	90	2498	22	22649

Other Manufacturing Technology

1000000000	0	8230	0	39	0	558	0	252	0	1438
2000000000	0	1944	0	148	0	64	0	5	0	32
2710003070	0	2	0	0	0	0	0	0	0	0
8428900010	159	761	0	0	0	0	0	0	8	136
8431390080	0	1272	0	2	0	13	0	0	0	35
8456101010	9	2272	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	5	32	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	36	3009	1	64	0	0	0	0	0	0
106050	62	7363	4	169	0	0	0	0	0	0
200010	1	342	0	0	0	0	0	0	0	0
200050	3	145	0	0	0	0	0	0	0	0
300000	4	2784	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	9	1788	0	0	0	0	0	0	0	0
510090	1	1087	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	0	0
800000	41	1659	0	0	2	6	1	40	1	76
8479899040	1273	4392	0	0	0	0	0	0	10	495
908040	0	834	0	0	0	0	0	0	0	96
8537100030	415	3258	0	0	0	0	0	0	0	0
9024100000	0	231	0	0	0	0	0	0	0	0
9031100000	0	749	0	0	0	0	0	0	0	0
300000	0	408	0	0	0	0	0	0	0	0
9032810020	20	3	0	0	0	0	0	0	0	0
810060	22	6	6000	19	0	0	0	0	1036	159

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

September 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	3	236	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	211	0	0	5	47	11	531	10	477
210080	0	0	0	0	0	0	19	479	3	806
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	11	0	0	0	0	0	0
290050	0	0	19	189	1	5	10	189	36	361
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	20	6	33	4	46
410080	1	177	0	0	0	0	19	664	1	2
490050	4	26	5	18	0	0	1	51	2	10
910060	0	0	0	0	0	0	0	0	0	0
910090	3	1	193	265	6	773	7	147	130	13
990030	0	0	0	0	0	0	3	706	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	78	0	0	0	0	0	0	0	0
990060	2	12	0	0	0	0	5	720	1	8
8463100080	0	0	0	0	0	0	18	371	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	812	0	0	3	135	3	284	2	8
900080	15	522	1	4	9	58	8	759	9	456
9800000002	1	9	0	0	6	281	56	323	9	39
9900000002	41	23	461	167	0	0	311	20	1048	100
Month Tot	81	1872	680	654	32	1320	480	5514	1255	2326
Y-T-D Tot	1351	18152	5804	7836	732	11166	2017	54287	4906	12459
NC YTD Tot	22	3623	6	920	7	185	229	15721	40	4280
C&F Month	298	8093	66900	9348	239	7204	944	29689	6745	9073
C&F Y-T-D	3154	86791	522458	103323	5260	86116	12804	303179	80004	71249
C&F NC YTD	334	29002	699	22466	596	48567	1033	140421	517	22572

Other Manufacturing Technology

1000000000	0	2963	0	1104	0	3237	0	10819	0	2030
2000000000	0	855	0	516	0	981	0	7289	0	1380
2710003070	0	0	0	0	0	0	0	5	0	0
8428900010	0	0	0	0	4	250	0	0	1	8
8431390080	0	1012	0	402	0	585	0	838	0	935
8456101010	3	165	0	0	0	0	4	185	0	0
101020	0	0	0	0	3	8	3	56	1	11
105000	0	0	0	0	1	29	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	319	0	0	8	12	0	0	0	0
106010	1	137	2	91	2	5	0	0	3	254
106050	0	0	9	376	8	51	63	2370	21	646
200010	1	11	2	20	0	0	10	2154	2	48
200050	0	0	1	55	1	438	53	2906	8	300
300000	0	0	12	433	0	0	6	1677	0	0
400000	0	0	1	8	0	0	0	0	0	0
510010	0	0	0	0	1	349	1	99	0	0
510090	0	0	1	12	0	0	1	150	0	0
590000	0	0	0	0	1	12	19	184	4	53
800000	2	535	27	246	2	43	117	3979	49	528
8479899040	0	0	0	0	2	77	2	98	33	131
908040	0	136	0	0	0	335	0	482	0	46
8537100030	7	4	0	0	0	0	25	16	35	2
9024100000	0	46	0	0	0	113	0	353	0	63
9031100000	0	0	0	0	0	54	0	45	0	33
300000	0	3	0	0	0	197	0	4	0	94
9032810020	422	18	0	0	0	0	11	2	11635	144
810060	1	2	1650	24	21	10	42	4	117	17

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	134	738	1	8	135	746
Bulgaria	0	0	0	0	0	0
Czechoslovakia	9	110	0	0	9	110
Denmark	37	201	2	68	39	269
East Germany	425	339	0	0	425	339
Finland	0	0	2	21	2	21
Hungary	3	73	0	0	3	73
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	130	1098	1	3	131	1101
Norway	0	0	0	0	0	0
Poland	24	372	0	0	24	372
Portugal	0	0	0	0	0	0
Romania	0	0	0	0	0	0
USSR	2	17	0	0	2	17
Yugoslavia	49	519	11	797	60	1316
Oth Europe	1	3	0	0	1	3
TOTAL	3104	44688	734	16792	3838	61481
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	6	49	46	100	52	149
Oth N & C Am.	0	0	0	0	0	0
TOTAL	104	1362	239	5509	343	6872
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	1	2	1	2
Oth South Am.	0	0	0	0	0	0
TOTAL	86	587	3	4	89	591
OCEANIA						
Australia	3	59	10	654	13	712
New Zealand	0	0	1	305	1	305
Oth Oceania	0	0	0	0	0	0
TOTAL	3	59	11	959	14	1018

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
Septemb[illegible] 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	4600	2194	1111	74	5711	2267
Hong Kong	26	76	2	8	28	83
India	15	109	1	2	16	111
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	8	82	4	53	12	135
Malaysia	0	0	50	137	50	137
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	18	709	0	0	18	709
Oth Asia	0	0	0	0	0	0
TOTAL	75384	90936	2073	19547	77457	110483
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	12	95	12	95
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	12	95	12	95

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

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RELEASED: December 5, 1990

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	652	43717
301050	Electro-discharge machines, n.e.c., NC	273	16279
301070	Electro-discharge machines, n.e.c., non-NC	283	6999
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1605	127356
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	103	20263
100035	Horiz. mach. ctrs., ATC	487	110587
100045	Mach. ctrs., n.e.c.	188	58178
200010	Unit construction mach. (single station transfer), NC	16	1822
200090	Unit construction mach. (single station transfer), non-NC	2	517
300010	Multi-station transfer machines, NC	43	31859
300090	Multi-station transfer machines, non-NC	72	31126
8458110010	Horiz. lathes, multiple spindle, NC	227	39912
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1752	123971
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	442	62694
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	44	13011
190030	Horiz. engine or toolroom lathes, non-NC	3055	32845
190050	Automatic bar and/or chucking mach., single spindle, non-NC	668	12627
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	102	8243
190090	Horiz. lathes, n.e.c., non-NC	1333	12669
911060	Vertical turret lathes, multiple spindle, NC	21	3751
911080	Vertical turret lathes, n.e.c., NC	44	8350
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	76	7482
991050	Vertical turret lathes, non-NC	72	3944
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	880	18038
8459100000	Way-type unit head machines	5	1718
210080	Other drilling machines, NC	250	16861
290040	Drilling machines, multiple spindle, non-NC	60	1771
290050	Drilling machines, radial, non-NC	346	2546
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729
290090	Drilling machines, n.e.c., non-NC	386	12659
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	68	10293
310070	Boring-milling mach., n.e.c., NC	30	2256
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	92	5889
400040	Boring machines, vertical, NC	1	59
400050	Boring machines, vertical, non-NC	41	1537
400070	Boring machines, n.e.c., NC	27	3282
400080	Boring machines, n.e.c., non-NC	170	5316
510080	Milling machines, knee type, NC	446	7659
590030	Milling machines, knee type, non-NC	2579	18658
610080	Milling machines, excl. knee type, n.e.c., NC	424	18771
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344
690070	Milling machines, bed type, non-NC	48	3238
690090	Milling machines, n.e.c., non-NC	625	16809
700020	Threading or tapping machines, n.e.c., NC	127	6603
700080	Threading or tapping machines, n.e.c., non-NC	145	4374
8460110080	Flat surface grinding mach., NC	110	9924
190010	Flat surface grinding mach., recip.-table type, non-NC	852	10391
190050	Flat surface grinding mach., n.e.c., non-NC	1518	15446
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	398	69335
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	359	13452
290030	Grinding mach., internal cylindrical, non-NC	177	10608
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	879	36403
310080	Sharpening machines (tool & cutter grinding), NC	189	4954
390050	Sharpening machines (tool & cutter grinding), non-NC	626	7779
400060	Honing or lapping machines, NC	32	4164
400080	Honing or lapping machines, non-NC	187	7564
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	43	3436
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1172	33284
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	8	53
200010	Shaping or slotting machines, NC	83	2974
200090	Shaping or slotting machines, non-NC	152	6186
300060	Broaching machines, NC	8	8396
300080	Broaching machines, non-NC	68	3563
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	95	8064
401040	Gear shapers	23	7025
401060	Gear cutting machines, n.e.c.	155	570
405050	Gear grinding or finishing for bevel gears	60	1679
405070	Gear grinding or finishing machines, n.e.c.	76	19888
500050	Sawing or cutting-off machines, NC	84	5465
500090	Sawing or cutting-off machines, non-NC	1579	26857
9000000001	Metal cutting machine tools, n.e.c.	262	12131
9800000001	Used or rebuilt machine tools	4868	25136
9900000001	Machine tools valued at less than $2,500	666927	69147
	Y-T-D Cutting Total	699434	1364256
	NC Y-T-D Cutting Total	8316	848108

Please see notes on last page
of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – January 90 – September 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	14	461	0	0
8457100015	0	0	0	0	0	0	5	492	0	0
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	0	0
100045	0	0	3	81	12	1140	1	260	15	2769
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	78	0	0	13	1976
300090	0	0	0	0	7	3490	0	0	6	2775
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	5	361	0	0
110050	0	0	0	0	0	0	25	2852	2	214
110090	0	0	0	0	0	0	0	0	4	2525
190030	0	0	491	3175	56	846	4	120	0	0
190050	0	0	30	257	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	2	351
190090	0	0	781	4277	9	29	6	138	1	3
911060	0	0	0	0	1	250	0	0	0	0
911080	0	0	0	0	3	151	17	2374	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	2	0	0	6	626
991050	0	0	0	0	0	0	7	364	2	12
995090	0	0	186	841	43	200	16	648	9	222
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	4	468	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	52	477	0	0	0	0	11	168
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	15	707	15	4807	9	2298
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	2	37	0	0	5	928
310070	0	0	0	0	0	0	1	168	0	0
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	1	15	0	0	25	456
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	20	258
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	42	507	5	13	74	793
510080	0	0	0	0	0	0	0	0	1	13
590030	0	0	0	0	1	6	1	3	1	6
610080	0	0	0	0	1	827	0	0	3	1252
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	5	81	13	794	55	6800
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	6	53	2	6	4	70
8460110080	2	110	0	0	2	55	0	0	13	1425
190010	0	0	0	0	0	0	0	0	24	452
190050	0	0	0	0	42	252	1	8	4	62
210080	0	0	0	0	1	241	1	39	9	780
290010	0	0	0	0	129	894	0	0	2	127
290030	0	0	0	0	1	2	0	0	2	533
290050	1	4	0	0	27	340	2	81	34	775
310080	0	0	0	0	3	7	7	45	3	25
390050	0	0	0	0	25	92	2	48	7	97
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	11	125	0	0	4	43
900060	0	0	0	0	2	7	0	0	9	184
900080	1	3	0	0	30	483	39	149	150	5759
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	0	0
200090	3	8	0	0	43	122	1	67	5	189
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	2	211
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	3	10	0	0	0	0
405050	0	0	0	0	1	25	0	0	0	0
405070	0	0	0	0	2	76	1	129	1	76
500050	0	0	0	0	0	0	0	0	2	21
500090	5	20	72	216	209	2981	10	239	251	1430
9000000001	0	0	0	0	13	443	78	2476	22	126
9800000001	9	1423	1	20	125	1139	299	391	25	215
9900000001	18	13	143	111	441	311	913	903	25831	4784
Y-T-D Tot	45	1626	1762	10082	1322	16528	1506	20416	26699	44124
NC YTD Tot	2	110	5	537	33	3262	77	8853	110	14821

Please see notes on last page of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – January 90 – September 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	437	33037	0	0	0	0	0	0	0	0
301050	134	9369	0	0	0	0	2	50	1	2
301070	11	651	0	0	0	0	1	70	1	70
8457100015	910	86872	53	2988	122	6606	9	455	0	0
100025	71	13407	0	0	0	0	0	0	0	0
100035	383	92793	0	0	0	0	2	270	0	0
100045	12	3093	3	187	1	83	0	0	3	816
200010	0	0	15	1741	0	0	0	0	0	0
200090	2	517	0	0	0	0	0	0	0	0
300010	22	28576	3	179	0	0	0	0	0	0
300090	11	5021	0	0	0	0	0	0	0	0
8458110010	185	29661	0	0	0	0	0	0	0	0
110030	1462	110148	36	2107	0	0	0	0	0	0
110050	380	55086	1	64	0	0	0	0	0	0
110090	20	3958	0	0	0	0	4	556	0	0
190030	25	462	94	1089	227	2806	37	850	0	0
190050	27	1806	0	0	0	0	0	0	0	0
190070	4	1296	0	0	0	0	0	0	0	0
190090	26	2428	12	295	0	0	1	124	0	0
911060	9	1936	1	159	0	0	0	0	1	201
911080	20	5597	1	95	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	36	4417	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	0	0	0	0
995090	30	5366	68	3810	0	0	37	215	2	18
8459100000	1	8	0	0	0	0	1	1413	0	0
210080	207	13331	2	170	0	0	0	0	2	28
290040	16	879	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	11	243	21	101
290070	8	271	0	0	0	0	29	147	10	38
290090	38	1627	0	0	0	0	190	1659	27	113
310010	1	224	0	0	0	0	1	104	0	0
310040	1	282	0	0	0	0	1	247	0	0
310070	7	320	0	0	0	0	1	214	0	0
390040	0	0	0	0	0	0	2	180	2	17
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	3	855	0	0	0	0	0	0	0	0
400070	4	1367	0	0	0	0	0	0	0	0
400080	9	1647	0	0	0	0	0	0	0	0
510080	4	791	0	0	0	0	68	532	1	76
590030	40	1176	0	0	0	0	1150	9003	2	106
610080	40	9219	0	0	19	785	0	0	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	14	454	0	0	0	0	0	0	3	452
690090	29	1685	0	0	0	0	23	202	0	0
700020	123	6156	0	0	0	0	1	59	0	0
700080	71	2595	0	0	0	0	1	51	2	60
8460110080	27	2746	0	0	0	0	1	12	2	973
190010	88	2475	0	0	312	3953	0	0	0	0
190050	42	2045	1	22	14	334	6	470	2	6
210080	206	36134	0	0	0	0	0	0	4	1941
290010	37	2475	1	25	0	0	0	0	6	584
290030	13	3042	0	0	0	0	0	0	3	1133
290050	160	16414	0	0	0	0	6	768	9	2280
310080	13	783	0	0	0	0	0	0	0	0
390050	99	2236	0	0	0	0	0	0	0	0
400060	11	1095	0	0	0	0	0	0	0	0
400080	22	1641	0	0	0	0	0	0	24	1083
900060	16	1336	0	0	0	0	0	0	0	0
900080	342	11541	13	109	0	0	16	1604	4	29
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	71	2274	0	0	0	0	0	0	0	0
200090	17	3111	0	0	37	230	0	0	0	0
300060	5	1282	0	0	0	0	0	0	0	0
300080	8	894	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	1	42	0	0	0	0	0	0
401040	3	615	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	11	2199	2	18	0	0	0	0	0	0
500050	22	2545	0	0	0	0	0	0	0	0
500090	166	6831	11	427	0	0	20	194	10	152
9000000001	34	3578	2	21	0	0	2	14	4	157
9800000001	2392	8362	0	0	6	20	16	432	113	165
9900000001	36622	5875	9074	1050	123	20	46	15	1690	1566
Y-T-D Tot	45335	662223	9396	14801	861	14838	1689	20695	1949	12164
NC YTD Tot	4851	560323	117	7894	142	7475	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – January 90 – September 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	148	9362	44	384	0	0	0	0	20	783
301050	59	3553	14	281	30	1420	3	423	30	1181
301070	63	2951	111	1287	18	117	4	154	60	1239
8457100015	2	650	62	4314	330	18719	27	2729	85	3530
100025	0	0	23	2229	2	1321	2	2794	0	0
100035	0	0	14	1876	11	395	75	13022	1	2022
100045	5	1676	14	912	7	342	79	45527	33	1291
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	89	3	962	0	0
300090	16	2487	0	0	0	0	32	17353	0	0
8458110010	1	859	3	130	6	844	32	8418	0	0
110030	6	634	98	5360	46	2461	3	265	96	2635
110050	3	697	13	691	6	912	8	1554	4	624
110090	0	0	1	50	1	104	13	5242	1	577
190030	6	19	676	5385	346	4906	6	3590	1087	9598
190050	23	2718	233	1850	10	594	305	4945	39	443
190070	25	4161	55	391	0	0	4	1666	11	343
190090	8	822	86	415	99	1837	7	826	297	1474
911060	6	463	0	0	0	0	1	622	2	120
911080	0	0	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	488	1	70	1	30	3	489	17	1158
991050	12	2591	10	36	9	25	2	539	29	205
995090	7	878	7	345	74	1531	31	1604	370	2360
8459100000	0	0	0	0	3	297	0	0	0	0
210080	3	117	0	0	2	315	27	1847	1	5
290040	6	627	25	71	0	0	4	13	4	153
290050	0	0	99	591	0	0	2	16	146	865
290070	0	0	6	49	0	0	14	208	2	15
290090	5	89	2	25	2	13	16	986	67	335
310010	0	0	2	297	0	0	0	0	0	0
310040	1	398	2	3	4	1679	25	5875	27	845
310070	2	61	2	12	2	19	10	904	5	559
390040	0	0	1	19	0	0	5	455	14	527
390050	0	0	15	106	1	693	30	3650	16	426
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	12	53	2	10	1	257	3	103
400070	0	0	0	0	0	0	0	0	0	0
400080	4	1611	1	7	4	174	27	472	4	92
510080	12	239	227	2103	82	2895	5	496	46	512
590030	5	292	886	4986	85	636	18	718	390	1728
610080	5	86	99	2011	12	694	175	3201	70	696
690050	0	0	5	24	0	0	1	4	24	254
690070	0	0	23	557	0	0	4	1636	3	41
690090	8	1009	270	1459	10	766	33	2565	179	1447
700020	0	0	0	0	0	0	3	389	0	0
700080	5	16	1	4	6	357	37	1049	4	67
8460110080	5	758	26	282	18	2253	12	1287	2	24
190010	0	0	292	1999	1	4	125	1468	10	40
190050	27	1228	1189	7742	56	968	41	1406	93	903
210080	30	5194	1	57	15	5984	129	18801	2	165
290010	48	4427	12	296	35	928	30	3171	59	527
290030	22	2368	0	0	3	68	65	2892	68	570
290050	61	1512	83	370	75	1012	376	11748	45	1100
310080	14	141	34	202	4	511	94	2477	17	762
390050	64	806	146	724	125	885	129	2423	29	470
400060	0	0	2	11	5	216	13	2692	0	0
400080	2	47	0	0	50	583	37	3572	37	471
900060	1	4	0	0	0	0	9	1667	6	239
900080	29	1304	44	288	104	583	247	9834	153	1599
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	2	286	9	393
200090	27	285	2	8	3	11	12	2149	2	6
300060	0	0	0	0	3	7114	0	0	0	0
300080	0	0	0	0	36	316	22	2243	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	4	51	71	6031	5	67
401040	0	0	0	0	0	0	17	6339	3	71
401060	80	9	0	0	20	123	48	59	2	22
405050	1	467	0	0	0	0	3	788	1	240
405070	12	6988	0	0	5	685	19	7844	23	1873
500050	0	0	8	139	0	0	50	2651	2	109
500090	12	356	103	548	86	552	289	10422	335	2491
9000000001	15	1996	1	6	9	261	31	2143	51	911
9800000001	92	928	584	358	926	6527	188	4519	92	638
9900000001	801	253	510981	43943	1733	1120	7648	2401	70863	6782
Y-T-D Tot	1803	68639	516654	95488	4528	74950	10787	248892	750[illegible]	58790
NC YTD Tot	312	25379	693	21545	589	48382	804	124701	47	18291

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

RELEASED: December 5, 1990

Metal Forming Machine Tools

		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	312	18726
8462100030	Headers and upsetters, including cold headers	128	12848
100050	Forging or die stamping machines, and hammers, n.e.c.	655	37277
210080	Bending, folding, straight. or flat. mach., incl presses, NC	440	28531
290030	Press brakes, non-NC	238	6637
290040	Bending rolls, non-NC	76	2025
290050	Bending, folding, straight., or flat., n.e.c., non-NC	973	32128
310080	Shearing machines, NC	50	3883
390050	Shearing machines, non-NC	467	13763
410080	Punching or notching mach., incl. comb. punch & shear, NC	271	27823
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	530	9804
910060	Hydraulic presses, NC	17	18521
910090	Hydraulic presses, non-NC	2280	14633
990030	Presses, n.e.c., NC	49	4438
990035	Mechanical transfer presses, non-NC	12	14836
990045	Mechanical presses, n.e.c., non-NC	75	3900
990060	Presses, n.e.c., non-NC	595	25371
8463100080	Draw benches for bars, tubes, profiles, wire or the like	79	4808
200080	Thread rolling machines	63	3445
300080	Machines for working wire	1086	52404
900080	Metal forming machine tools, n.e.c.	521	22665
9800000002	Used or rebuilt machine tools	1009	14733
9900000002	Machine tools valued at less than $2,500	13353	4487
	Y-T-D Forming Total	23279	377687
	NC Y-T-D Forming Total	827	83196
	Cutting and Forming Totals:		
	Y-T-D Total	722713	1741943
	NC Y-T-D Total	9143	931305

Other Manufacturing Technology

		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	416612
2000000000	Parts for working rubber or plastics - heading 8477	0	245490
2710003070	Quenching or cutting oils	0	290
8428900010	Industrial robots for lifting, handling, loading or unload	1552	27385
8431390080	Parts industrial robots, handling and loading - heading 8428	0	72121
8456101010	Laser, light or photon beam for working metal, NC	139	25690
101020	Laser, light or photon beam for working metal, non-NC	67	3641
105000	Laser, light or photon beam for other materials	105	7483
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	12	150
205000	Ultrasonic processes for working other materials	56	195
8477103000	Injection molding mach., for manufacturing shoes	111	2922
106010	Injection molding mach., for rubber or oth. thermosetting	602	50872
106050	Injection molding mach., for thermoplastics	1955	183270
200010	Extruders for rubber or other thermosetting materials	180	13293
200050	Extruders for processing thermoplastics	808	51147
300000	Blow molding machines	279	37601
400000	Vacuum-molding and other thermoforming machines	149	5529
510010	Machines for molding or retreading pneumatic tires	442	37983
510090	Machines for molding or otherwise forming inner tubes	259	11836
590000	Machines for molding or otherwise forming n.e.c.	833	42010
800000	Machines for working rubber or plastics n.e.c.	8401	84942
8479899040	Industrial robots, n.e.c.	13273	54189
908040	Industrial robot parts	0	25744
8537100030	Numerical controls for controlling machine tools	9329	35118
9024100000	Machines and appliances for testing metals	0	9486
9031100000	Machines for balancing mechanical parts	0	10049
300000	Profile projectors	0	5116
9032810020	Industrial process control instr., hydraulic	121840	1753
810060	Industrial process control instr., pneumatic	206689	3583

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - September 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	93	3933	0	0	20	996
8462100030	1	1273	0	0	0	0	1	12	19	2437
100050	0	0	0	0	122	3485	95	96	21	1296
210080	3	988	0	0	44	4972	2	20	27	1367
290030	39	1188	0	0	140	4448	0	0	0	0
290040	0	0	0	0	11	101	1	367	19	388
290050	5	26	0	0	251	6209	72	1457	82	2014
310080	31	964	0	0	1	9	0	0	1	236
390050	69	1334	0	0	63	1832	2	95	17	494
410080	1	1068	0	0	1	10	1	119	2	71
490050	0	0	0	0	23	1501	1	20	59	665
910060	3	190	0	0	0	0	0	0	0	0
910090	20	29	0	0	58	3909	4	6	37	268
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	0	0	1	10
990060	2	1347	0	0	196	9227	13	50	63	792
8463100080	6	269	0	0	10	1028	0	0	7	94
200080	0	0	0	0	2	25	0	0	2	700
300080	143	7897	0	0	25	1980	15	324	120	13192
900080	0	0	0	0	37	2601	16	312	91	2739
9800000002	62	1286	11	200	301	2642	30	154	24	3671
9900000002	50	6	2	2	120	110	55	75	940	289
Y-T-D Tot	450	17872	13	202	1500	48035	308	3107	1581	31941
NC YTD Tot	38	3210	0	0	46	4991	3	139	59	1896
C&F Y-T-D	495	19498	1775	10285	2822	64563	1814	23523	28280	76064
C&F NC YTD	40	3320	5	537	79	8253	80	8992	169	16717

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	5341	0	399	0	50364	0	7315	0	16450
2000000000	0	2803	0	23	0	45661	0	24362	0	11842
2710003070	0	0	0	0	0	191	0	0	0	0
8428900010	3	160	0	0	117	2304	1	49	4	2131
8431390080	0	241	0	368	0	11641	0	791	0	1153
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	6	267	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	38	2176
106010	0	0	0	0	27	3492	44	5686	19	1110
106050	1	36	0	0	325	35527	6	1024	77	9705
200010	3	16	0	0	11	114	4	748	11	349
200050	3	390	0	0	75	4696	1	70	43	7733
300000	0	0	0	0	29	911	14	12749	16	2683
400000	0	0	0	0	7	144	0	0	9	329
510010	3	25	0	0	74	5925	31	858	73	2209
510090	0	0	60	13	13	1271	2	16	18	30
590000	0	0	0	0	77	5054	3	376	44	2972
800000	292	1021	0	0	301	3715	344	4441	92	3126
8479899040	11	258	0	0	665	1142	67	712	6	419
908040	0	110	0	0	0	1027	0	188	0	472
8537100030	0	0	0	0	41	92	1	2	204	300
9024100000	0	42	0	0	0	1128	0	42	0	324
9031100000	0	7	0	0	0	42	0	56	0	174
300000	0	0	0	0	0	10	0	0	0	9
9032810020	24	72	0	0	24	115	0	0	42	1
810060	2	1	0	0	79	9	0	0	2156	208

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	117	10122	1	70	0	0	0	0	0	0
8462100030	73	7827	0	0	0	0	0	0	0	0
100050	182	21520	10	409	5	9	1	6	13	306
210080	251	12231	0	0	1	5	0	0	4	3459
290030	11	270	0	0	5	107	0	0	0	0
290040	3	101	0	0	0	0	0	0	10	658
290050	90	7462	0	0	0	0	2	7	93	1894
310080	10	1729	0	0	0	0	0	0	0	0
390050	101	7124	1	30	0	0	0	0	14	277
410080	92	11730	0	0	0	0	0	0	0	0
490050	56	2307	0	0	0	0	146	1552	8	158
910060	3	856	0	0	0	0	0	0	4	15153
910090	186	4695	0	0	0	0	1	14	23	386
990030	12	3069	0	0	0	0	0	0	0	0
990035	4	14279	0	0	0	0	0	0	0	0
990045	39	3040	0	0	0	0	0	0	0	0
990060	98	5164	0	0	0	0	5	15	12	232
8463100080	26	2449	0	0	0	0	0	0	0	0
200080	43	1985	0	0	0	0	13	674	0	0
300080	497	18567	0	0	0	0	0	0	5	21
900080	122	4884	0	0	0	0	9	786	7	475
9800000002	66	3285	0	0	0	0	14	13	10	191
9900000002	1514	623	9	7	71	12	217	203	307	179
Y-T-D Tot	3596	145320	21	516	82	133	408	3271	510	23391
NC YTD Tot	368	29614	0	0	1	5	0	0	8	18612
C&F Y-T-D	48931	807543	9417	15317	943	14970	2097	23965	2459	35556
C&F NC YTD	5219	589938	117	7894	14[illegible]	7480	90	2498	22	22649

Other Manufacturing Technology

1000000000	0	116113	0	1251	0	5072	0	2411	0	11018
2000000000	0	40363	0	763	0	751	0	677	0	802
2710003070	0	39	0	0	0	0	0	0	0	0
8428900010	665	12225	0	0	0	0	0	0	72	3130
8431390080	0	10103	0	272	0	13	0	87	0	888
8456101010	109	22607	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	0	0
105000	2	3829	0	0	0	0	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	7	88	0	0	0	0	0	0	3	10
205000	3	141	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	315	28249	6	296	4	243	0	0	2	82
106050	617	74199	36	1471	19	291	0	0	1	15
200010	60	6392	1	8	0	0	1	124	0	0
200050	54	6504	4	283	0	0	0	0	27	1354
300000	73	8599	42	234	0	0	2	281	0	0
400000	14	1203	0	0	0	0	0	0	0	0
510010	220	23156	0	0	0	0	0	0	0	0
510090	28	5676	4	79	0	0	0	0	2	4
590000	314	27041	2	38	0	0	0	0	2	140
800000	3563	33772	1900	238	4	606	14	345	32	258
8479899040	11964	37289	62	57	0	0	6	224	95	4689
908040	0	10671	0	0	0	11	0	2	0	751
8537100030	8733	34307	0	0	0	0	0	0	0	0
9024100000	0	2701	0	0	0	0	0	0	0	197
9031100000	0	8066	0	15	0	4	0	10	0	20
300000	0	1836	0	0	0	0	0	0	0	0
9032810020	155	34	14000	61	0	0	0	0	1	8
810060	1631	79	115000	207	0	0	0	0	8698	1471

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

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Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	895	3	216	6	130	12	2160	41	197
8462100030	0	0	0	0	0	0	34	1299	0	0
100050	17	3395	8	100	54	1623	62	2915	65	2117
210080	5	138	3	82	5	88	75	3728	20	1454
290030	0	0	4	32	0	0	1	4	38	587
290040	1	5	19	157	3	62	0	0	9	185
290050	22	1223	51	515	27	1249	129	8761	149	1313
310080	3	214	0	0	1	15	1	703	2	14
390050	1	181	3	15	104	1042	50	761	42	579
410080	12	3121	2	189	1	83	145	8683	14	2750
490050	18	746	28	175	72	1146	100	1196	19	337
910060	0	0	1	650	0	0	4	1638	2	34
910090	18	1054	1115	1030	11	1337	51	1485	756	419
990030	2	149	0	0	0	0	4	969	2	29
990035	1	100	0	0	1	318	6	139	0	0
990045	12	512	0	0	2	74	16	183	3	68
990060	4	23	58	2015	82	1408	38	4681	24	417
8463100080	1	3	0	0	0	0	29	965	0	0
200080	0	0	2	43	0	0	0	0	1	19
300080	35	3330	31	796	60	1226	147	4966	8	104
900080	41	2433	8	160	46	416	121	7186	23	675
9800000002	127	498	35	118	182	865	107	1617	40	192
9900000002	1027	130	4433	1546	75	85	885	250	3648	969
Y-T-D Tot	1351	18152	5804	7836	732	11166	2017	54287	4906	12459
NC YTD Tot	22	3623	6	920	7	185	229	15721	40	4280
C&F Y-T-D	3154	86791	522458	103323	5260	86116	12804	303179	80004	71249
C&F NC YTD	334	29002	699	22466	596	48567	1033	140421	517	22572

Other Manufacturing Technology

1000000000	0	27140	0	12866	0	31971	0	102275	0	26627
2000000000	0	6319	0	9026	0	6481	0	79940	0	15676
2710003070	0	1	0	0	0	0	0	59	0	0
8428900010	44	732	0	0	60	1836	548	1599	38	3220
8431390080	0	11096	0	1567	0	10478	0	13546	0	9875
8456101010	10	565	0	0	7	900	7	914	6	704
101020	0	0	0	0	6	388	57	2559	2	146
105000	9	1268	0	0	29	1057	3	24	52	1028
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	0	0	1	36	0	0
205000	0	0	0	0	1	38	0	0	51	9
8477103000	2	467	5	32	11	16	52	115	2	2
106010	16	2465	47	2304	3	32	60	3789	59	3124
106050	47	5031	81	3349	38	692	509	37258	198	14673
200010	16	837	15	215	5	276	40	3902	13	313
200050	7	2164	47	1822	81	1533	448	23740	18	857
300000	0	0	27	1018	0	0	69	10201	7	924
400000	0	0	3	28	1	4	113	3735	2	88
510010	0	0	0	0	15	560	10	1730	16	3520
510090	2	176	3	16	21	773	96	2809	10	974
590000	143	418	5	197	68	587	81	2924	94	2264
800000	377	3699	148	1854	149	1515	872	26990	313	3363
8479899040	10	1300	0	0	25	617	171	4931	191	2549
908040	0	1052	0	136	0	2236	0	8335	0	751
8537100030	12	49	0	0	13	67	227	226	98	75
9024100000	0	279	0	12	0	2000	0	1725	0	1036
9031100000	0	59	0	3	0	122	0	391	0	1081
300000	0	469	0	0	0	1967	0	446	0	380
9032810020	2686	139	0	0	10580	58	182	22	94146	1243
810060	1	2	58575	253	1833	61	14636	615	4078	675

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
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U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 September 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1684	10232	9	258	1693	10490
Bulgaria	0	0	0	0	0	0
Czechoslovakia	82	1202	1	85	83	1287
Denmark	410	1921	132	759	542	2680
East Germany	689	2323	150	4	839	2327
Finland	50	348	62	2912	112	3260
Hungary	10	628	0	0	10	628
Ireland	16	90	2	14	18	104
Luxembourg	0	0	0	0	0	0
Netherlands	365	3611	251	719	616	4330
Norway	2	14	3	185	5	198
Poland	325	4774	0	0	325	4774
Portugal	172	554	70	1094	242	1649
Romania	1	19	0	0	1	19
USSR	10	133	1	9	11	143
Yugoslavia	592	5049	25	1915	617	6964
Oth Europe	68	2126	11	213	79	2339
TOTAL	53482	524527	8074	171357	61556	695884
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	478	854	498	1108	976	1962
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1927	17438	1999	49148	3926	66586
SOUTH AMERICA						
Argentina	23	165	5	23	28	188
Chile	0	0	0	0	0	0
Colombia	2	18	1	3	3	20
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	1	2	4	328
Oth South Am.	0	0	0	0	0	0
TOTAL	1791	10592	20	230	1811	10823
OCEANIA						
Australia	106	1792	23	1021	129	2813
New Zealand	1	5	116	643	117	648
Oth Oceania	0	0	0	0	0	0
TOTAL	107	1797	139	1664	246	3460

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	66603	14944	3340	518	69943	15462
Hong Kong	2818	476	17	28	2835	504
India	151	1345	13	28	164	1373
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	199	3313	69	400	268	3712
Malaysia	35	5	51	287	86	292
Pakistan	0	0	0	0	0	0
Philippines	4	15	1	21	5	35
Thailand	58	2314	0	0	58	2314
Oth Asia	1	68	0	0	1	68
TOTAL	642116	809831	12994	155086	655110	964917
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	53	203	58	262
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	53	203	64	273

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

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Metal Cutting Machine Tools - October 90

RELEASED: January 2, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	60	5226	7	516
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	66	11833	9	1956
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	18	4248	2	590
100035	Horiz. mach. ctrs., ATC	44	11840	3	575
100045	Mach. ctrs., n.e.c.	214	21363	38	1559
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	12	22399	4	5856
300090	Multi-station transfer machines, non-NC	23	5403	1	1266
8458110010	Horiz. lathes, multiple spindle, NC	25	5881	3	630
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	256	19431	20	1484
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	53	7117	2	294
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	20	5242	0	0
190030	Horiz. engine or toolroom lathes, non-NC	92	1761	3	63
190050	Automatic bar and/or chucking mach., single spindle, non-NC	12	311	1	23
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	46	2337	5	336
190090	Horiz. lathes, n.e.c., non-NC	381	4920	40	459
911060	Vertical turret lathes, multiple spindle, NC	4	1255	2	633
911080	Vertical turret lathes, n.e.c., NC	3	505	1	188
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	40	8658	6	800
991050	Vertical turret lathes, non-NC	34	760	8	151
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	66	4074	4	187
8459100000	Way-type unit head machines	20	4126	3	1788
210080	Other drilling machines, NC	85	7764	3	182
290040	Drilling machines, multiple spindle, non-NC	32	1539	2	172
290050	Drilling machines, radial, non-NC	20	199	2	48
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	84	1962	6	169
290090	Drilling machines, n.e.c., non-NC	650	4383	47	367
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	1	95
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	18	992	1	31
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	25	893	4	94
400040	Boring machines, vertical, NC	7	2234	1	210
400050	Boring machines, vertical, non-NC	40	1346	4	166
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	29	1440	1	17
510080	Milling machines, knee type, NC	21	2200	2	210
590030	Milling machines, knee type, non-NC	107	3982	16	554
610080	Milling machines, excl. knee type, n.e.c., NC	52	18864	4	928
690050	Milling machines, profile, dup., or die sinking, non-NC	23	533	1	22
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	180	6165	28	475
700020	Threading or tapping machines, n.e.c., NC	33	1392	7	189
700080	Threading or tapping machines, n.e.c., non-NC	568	4950	235	1016
8460110080	Flat surface grinding mach., NC	73	8245	14	1571
190010	Flat surface grinding mach., recip.-table type, non-NC	52	894	3	35
190050	Flat surface grinding mach., n.e.c., non-NC	28	6049	2	1338
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	83	24940	7	1730
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	46	5801	1	57
290030	Grinding mach., internal cylindrical, non-NC	40	2982	5	127
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	342	13968	38	2210
310080	Sharpening machines (tool & cutter grinding), NC	40	3949	2	67
390050	Sharpening machines (tool & cutter grinding), non-NC	883	13072	120	979
400060	Honing or lapping machines, NC	3	618	0	0
400080	Honing or lapping machines, non-NC	669	12094	37	492
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	8	1008	1	21
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	969	15418	116	2306
8461100060	Planing machines, NC	6	788	5	676
100080	Planing machines, non-NC	236	6747	12	686
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	36	1159	9	527
300060	Broaching machines, NC	12	1571	1	348
300080	Broaching machines, non-NC	26	1412	3	65
401050	Gear hobbers	33	3806	11	597
401070	Gear shapers	36	5734	10	545
401090	Gear cutting machines, n.e.c.	82	34506	4	2675
405060	Gear grinding or finishing machines	57	4073	8	400
500050	Sawing or cutting-off machines, NC	107	3973	5	430
500090	Sawing or cutting-off machines, non-NC	1230	16339	118	1762
9000000001	Metal cutting machine tools, n.e.c.	1075	21052	88	1033
9800000001	Used or rebuilt machine tools	4321	52160	513	4554
9900000001	Machine tools valued at less than $2,500	32775	20192	4673	2436
	Cutting Total			6333	51970
	Y-T-D Cutting Total	46789	505853		
	NC Y-T-D Cutting Total*	1540	217230		

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U.S. EXPORTS
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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	357
8457100015	0	0	0	0	0	0	0	0	3	912
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	36
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	2	494
110030	0	0	0	0	1	84	0	0	2	300
110050	0	0	0	0	1	104	0	0	1	190
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	27
190050	0	0	0	0	0	0	0	0	1	23
190070	0	0	0	0	0	0	0	0	4	251
190090	0	0	0	0	1	11	0	0	2	28
911060	0	0	0	0	0	0	0	0	1	529
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	29
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	182	0	0
290040	0	0	0	0	0	0	0	0	1	42
290050	0	0	0	0	0	0	0	0	1	6
290070	0	0	0	0	0	0	0	0	2	17
290090	0	0	0	0	0	0	0	0	26	227
310010	0	0	0	0	0	0	0	0	1	95
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	65
400040	0	0	0	0	0	0	0	0	1	210
400050	0	0	0	0	0	0	0	0	1	37
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	17
510080	0	0	0	0	0	0	0	0	1	185
590030	2	32	0	0	0	0	0	0	2	69
610080	0	0	0	0	0	0	0	0	1	221
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	31	1	7
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	55	204	0	0	11	48
8460110080	0	0	0	0	0	0	12	1504	0	0
190010	0	0	0	0	0	0	0	0	1	5
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	2	57
290050	0	0	0	0	0	0	0	0	8	631
310080	0	0	0	0	0	0	0	0	1	37
390050	0	0	0	0	0	0	0	0	16	235
400060	0	0	0	0	0	0	0	0	0	0
400080	1	86	0	0	0	0	0	0	1	5
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	7	3	26	2	26	23	214
8461100060	0	0	0	0	0	0	5	676	0	0
100080	0	0	0	0	0	0	0	0	1	69
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	5	0	0	0	0	1	93
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	16
401050	0	0	0	0	0	0	0	0	9	473
401070	0	0	0	0	4	214	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	10
500050	0	0	0	0	0	0	0	0	3	74
500090	2	20	0	0	0	0	0	0	15	154
9000000001	0	0	0	0	0	0	1	12	11	120
9800000001	3	50	0	0	1	30	0	0	120	1009
9900000001	47	21	8	5	0	0	4	3	311	382
Month Tot	55	208	11	18	66	672	28	2432	600	8010
Y-T-D Tot	1552	14199	144	245	580	17859	605	13881	5461	101089
NC YTD Tot*	18	7137	1	23	138	15532	33	4578	332	55724

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	1	280	0	0	0	0	0	0
100025	1	340	0	0	0	0	0	0	0	0
100035	2	350	0	0	0	0	0	0	0	0
100045	20	546	0	0	0	0	0	0	1	105
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	136	0	0	0	0	0	0
110030	0	0	1	47	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	6	800	0	0	0	0
991050	0	0	8	151	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	51
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	2	101	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	852	0	0	1	260
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	8	861	0	0	1	162
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	22	5	56	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	6	51	0	0	0	0	11	1186
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	1	348	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	5	266
401090	0	0	0	0	0	0	0	0	0	0
405060	3	190	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	17	311	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	0	0	20	144	16	109	0	0	2	6
9900000001	0	0	30	16	0	0	88	132	203	122
Month Tot	45	2108	74	983	32	2622	88	132	225	2159
Y-T-D Tot	237	17661	1060	8100	728	19219	182	305	1557	15362
NC YTD Tot*	62	10869	53	3716	30	9703	0	0	50	4489

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	2	340	0	0	0	0	0	0
100025	0	0	0	0	0	0	1	250	0	0
100035	1	225	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	10	480	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	9	434	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	11	123	0	0	0	0	20	252	0	0
911060	1	104	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	2	133	0	0
8459100000	0	0	0	0	0	0	1	48	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	130	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	3	12	0	0	17	77	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	29	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	2	119	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	1	25	0	0
590030	0	0	0	0	0	0	3	155	0	0
610080	0	0	0	0	0	0	1	25	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	3	62	0	0	0	0	15	206	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	2	29	0	0
190050	0	0	0	0	0	0	0	0	2	1338
210080	4	618	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	1	57	0	0
290030	0	0	0	0	0	0	1	13	0	0
290050	6	211	0	0	0	0	14	329	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	20	126	24	127	1	4	4	130	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	20	242	2	30	0	0	0	0	0	0
900060	0	0	0	0	0	0	1	21	0	0
900080	11	120	14	138	0	0	11	124	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	6	537	3	62	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	2	49	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1224	0	0	0	0	0	0
405060	0	0	1	36	0	0	1	60	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	18	277	2	23	0	0	17	271	2	6
9000000001	11	108	0	0	0	0	2	33	14	76
9800000001	18	83	30	274	0	0	122	1514	11	22
9900000001	439	138	441	206	0	0	911	216	29	19
Month Tot	578	3409	524	2471	1	4	1166	4775	58	1460
Y-T-D Tot	3947	36668	2037	41416	387	2277	8682	46626	488	5701
NC YTD Tot*	116	12163	59	12509	2	131	167	12710	9	860

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	73
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	56
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	1	25	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	42	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	2	77
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	73
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	2	68
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	1	20	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	28	0	0	3	9
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	6	73	8	70	2	21	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	5	403	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	1	183	0	0	0	0	0	0
500090	0	0	1	4	0	0	1	23	0	0
9000000001	8	108	0	0	2	27	0	0	0	0
9800000001	1	6	2	97	2	10	2	39	3	8
9900000001	571	70	0	0	52	30	123	111	17	25
Month Tot	581	204	10	358	66	189	134	639	32	390
Y-T-D Tot	1726	7664	660	5561	947	4766	745	10129	383	2048
NC YTD Tot*	18	2443	43	1637	4	1182	23	5381	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - October 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	2	159	0	0
8457100015	0	0	0	0	0	0	2	299	1	125
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	3	133	0	0	0	0	0	0	2	185
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	4	5856	0	0
300090	0	0	0	0	0	0	1	1266	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	4	337	0	0	1	87	0	0	1	139
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	36	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	84	0	0
190090	0	0	0	0	0	0	0	0	6	45
911060	0	0	0	0	0	0	0	0	0	0
911080	1	188	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	2	1740
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	149	0	0	0	0	0	0	1	3
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	31	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	11
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	7	222
610080	0	0	0	0	0	0	0	0	2	682
690050	0	0	0	0	0	0	1	22	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	10	3	86
700020	0	0	0	0	0	0	6	138	1	51
700080	0	0	0	0	156	633	1	3	10	28
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	37	0	0
290050	1	17	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	30
390050	2	11	0	0	0	0	45	292	8	53
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	3	13
900060	0	0	0	0	0	0	0	0	0	0
900080	3	21	0	0	1	5	5	146	9	80
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	4	1	15
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	26
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	2	124	0	0
401070	0	0	0	0	0	0	1	65	0	0
401090	0	0	2	1451	0	0	0	0	0	0
405060	0	0	0	0	0	0	2	105	0	0
500050	1	173	0	0	0	0	0	0	0	0
500090	7	93	0	0	0	0	13	237	23	343
9000000001	9	258	0	0	0	0	9	171	21	121
9800000001	11	76	0	0	6	30	79	234	64	812
9900000001	244	145	9	5	4	8	133	79	1009	702
Month Tot	291	1637	11	1457	168	763	312	9360	1177	5511
Y-T-D Tot	3773	39259	38	7862	934	6462	2613	43573	7323	37924
NC YTD Tot*	189	25278	0	0	13	1144	60	17498	114	12203

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

RELEASED: January 2, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	281	7855	33	354
8462100030	Headers and upsetters, including cold headers	49	16557	4	734
100050	Forging or die stamping machines, and hammers, n.e.c.	268	24220	26	3071
210080	Bending, folding, straight. or flat. mach., incl presses, NC	281	26544	31	2110
290030	Press brakes, non-NC	135	3125	8	291
290040	Bending rolls, non-NC	67	2124	4	724
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1060	27326	96	3429
310080	Shearing machines, NC	71	6310	5	286
390050	Shearing machines, non-NC	285	7739	23	575
410080	Punching or notching mach., incl. comb. punch & shear, NC	143	20691	14	2132
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	724	18696	69	1703
910060	Hydraulic presses, NC	73	4678	14	464
910090	Hydraulic presses, non-NC	513	21022	15	312
990030	Presses, n.e.c., NC	131	11148	6	768
990040	Presses, mechanical, non-NC	91	9418	7	622
990060	Presses, n.e.c., non-NC	979	32470	47	2377
8463100080	Draw benches for bars, tubes, profiles, wire or the like	189	4938	23	376
200080	Thread rolling machines	49	2179	1	33
300080	Machines for working wire	636	19686	68	2314
900080	Metal forming machine tools, n.e.c.	1425	48285	116	5354
9800000002	Used or rebuilt machine tools	2827	53038	178	4014
9900000002	Machine tools valued at less than $2,500	11777	9119	1035	912
	Forming Total			1823	32954
	Y-T-D Forming Total	22054	377167		
	NC Y-T-D Forming Total	699	69371		
	Cutting and Forming Totals:				
	Monthly Total			8156	84925
	Y-T-D Total	68843	883020		
	NC Y-T-D Total*	2239	286601		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	596300	0	59899
2000000000	Parts for working rubber or plastics - heading 8477	0	236077	0	25346
2710003070	Quenching or cutting oils	0	17679	0	492
8428900010	Industrial robots for lifting, handling, loading or unload	297	6072	25	650
8431390090	Parts industrial robots, handling and loading - heading 8428	0	63889	0	8777
8456100000	Laser, light or photon beam for working any material	796	40523	102	6121
200000	Ultrasonic process for working any material	71	1796	5	95
8477106010	Injection molding mach., for rubber or oth. thermosetting	257	17996	23	6833
106070	Injection molding mach., for thermoplastics	362	43293	35	4116
200010	Extruders for rubber or other thermosetting materials	311	13681	44	3068
200050	Extruders for processing thermoplastics	717	37223	67	3944
300000	Blow molding machines	490	37027	13	1896
400000	Vacuum-molding and other thermoforming machines	4577	11923	16	217
510010	Machines for molding or retreading pneumatic tires	1389	17225	592	2799
510090	Machines for molding or otherwise forming inner tubes	366	28200	45	1022
590000	Machines for molding or otherwise forming n.e.c.	1210	20154	202	1755
800000	Machines for working rubber or plastics n.e.c.	4752	92417	529	8479
8479899040	Industrial robots, n.e.c.	5082	47343	336	3708
908040	Industrial robot parts	0	24326	0	1316
8537100030	Numerical controls for controlling machine tools	1728	25806	155	2377
9024100000	Machines and appliances for testing metals	0	63283	0	5379
9031100000	Machines for balancing mechanical parts	0	24896	0	3185
300000	Profile projectors	0	6067	0	279
9032810040	Industrial process control instr., hydraulic or pneumatic	593623	44570	84851	8688

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	2	104	1	167
100050	0	0	0	0	0	0	0	0	2	188
210080	2	71	0	0	0	0	1	33	15	1354
290030	0	0	0	0	0	0	0	0	1	66
290040	0	0	0	0	0	0	0	0	2	82
290050	6	364	0	0	0	0	9	92	30	505
310080	0	0	0	0	0	0	0	0	3	204
390050	0	0	0	0	0	0	0	0	6	154
410080	0	0	0	0	0	0	0	0	5	1040
490050	0	0	0	0	0	0	0	0	32	459
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	2	26
990040	0	0	0	0	0	0	0	0	2	39
990060	0	0	0	0	0	0	0	0	4	47
8463100080	0	0	0	0	0	0	0	0	2	140
200080	0	0	0	0	0	0	0	0	0	0
300080	5	136	1	25	0	0	3	28	4	139
900080	4	616	1	32	1	35	1	200	24	520
9800000002	4	126	1	89	0	0	0	0	28	699
9900000002	6	5	0	0	10	3	21	17	182	165
Month Tot	27	1318	3	145	11	38	37	475	345	5994
Y-T-D Tot	440	6032	65	2309	559	2577	554	5971	3613	58433
NC YTD Tot	28	1979	0	0	0	0	9	534	151	19269
C&F Month	82	1526	14	163	77	710	65	2907	945	14003
C&F Y-T-D	1992	20231	209	2554	1139	20436	1159	19852	9074	159522
C&F NC YTD*	46	9117	1	23	138	15532	42	5113	483	74994

Other Manufacturing Technology	Australia		Austria		Belgium		Brazil		Canada	
1000000000	0	725	0	200	0	1222	0	1781	0	15367
2000000000	0	135	0	147	0	308	0	409	0	8911
2710003070	0	14	0	0	0	6	0	22	0	191
8428900010	0	0	0	0	0	0	0	0	3	34
8431390090	0	59	0	0	0	13	0	12	0	1613
8456100000	2	56	0	0	12	275	4	294	4	329
200000	0	0	0	0	0	0	0	0	1	19
8477106010	0	0	0	0	0	0	4	269	1	201
106070	0	0	0	0	0	0	0	0	12	1374
200010	0	0	0	0	0	0	0	0	33	1887
200050	3	1482	0	0	0	0	1	195	0	0
300000	0	0	0	0	0	0	0	0	4	999
400000	0	0	0	0	0	0	0	0	2	147
510010	403	68	0	0	25	626	5	208	4	117
510090	0	0	0	0	1	421	0	0	0	0
590000	1	11	1	10	0	0	1	60	5	632
800000	9	88	0	0	4	139	8	161	87	2348
8479899040	2	15	0	0	0	0	0	0	202	1834
908040	0	3	0	0	0	0	0	0	0	582
8537100030	1	13	0	0	0	0	0	0	4	44
9024100000	0	37	0	15	0	127	0	142	0	523
9031100000	0	0	0	0	0	0	0	0	0	911
300000	0	0	0	0	0	0	0	0	0	15
9032810040	287	25	889	44	1437	72	459	31	2597	345

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	5	50	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	616	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	1	19	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	3	156	0	0	2	811	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	125	0	0
490050	0	0	3	85	0	0	0	0	1	13
910060	4	51	4	199	0	0	0	0	0	0
910090	0	0	0	0	1	75	0	0	0	0
990030	0	0	0	0	0	0	0	0	2	473
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	23	0	0	1	66
8463100080	0	0	1	30	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	612	0	0	0	0	1	7
900080	0	0	2	1500	6	59	0	0	0	0
9800000002	3	65	6	593	0	0	0	0	0	0
9900000002	4	3	46	39	8	7	0	0	2	5
Month Tot	11	119	74	3899	16	165	3	936	7	584
Y-T-D Tot	375	12433	550	16433	397	6057	244	6573	295	7860
NC YTD Tot	7	2680	45	4449	0	0	4	701	11	1432
C&F Month	56	2227	148	4881	48	2787	91	1069	232	2743
C&F Y-T-D	612	30094	1610	24533	1125	25276	426	6878	1852	23222
C&F NC YTD*	69	13549	98	8166	30	9703	4	701	61	5920

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	270	0	2215	0	522	0	614	0	1384
2000000000	0	19	0	197	0	1035	0	126	0	206
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	2	69	0	0	0	0	0	0	1	13
8431390090	0	151	0	108	0	20	0	18	0	26
8456100000	0	0	2	260	1	114	0	0	0	0
200000	0	0	0	0	0	0	0	0	2	38
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	1	16	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	4	438	50	215	0	0
510090	2	548	0	0	0	0	0	0	0	0
590000	0	0	2	29	0	0	0	0	13	218
800000	187	1442	1	354	5	149	4	8	11	162
8479899040	0	0	7	452	0	0	0	0	1	16
908040	0	0	0	17	0	0	0	0	0	35
8537100030	0	0	11	223	4	36	0	0	5	67
9024100000	0	220	0	149	0	37	0	6	0	446
9031100000	0	0	0	0	0	534	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	4
9032810040	2	3	2397	1852	181	14	0	0	3196	167

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	25	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	5	327	2	148	0	0	3	161	0	0
210080	2	97	0	0	0	0	3	150	0	0
290030	0	0	0	0	0	0	3	61	0	0
290040	0	0	0	0	0	0	1	630	0	0
290050	4	59	6	122	0	0	11	501	0	0
310080	1	39	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	5	245	0	0
410080	0	0	0	0	0	0	0	0	5	610
490050	1	165	3	34	0	0	11	336	0	0
910060	1	64	1	106	0	0	0	0	0	0
910090	1	11	0	0	0	0	5	36	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	1	400	0	0	0	0	2	65	0	0
990060	1	170	1	260	0	0	24	322	0	0
8463100080	0	0	0	0	0	0	6	24	0	0
200080	0	0	0	13	0	0	1	20	0	0
300080	2	268	0	0	3	31	5	194	0	0
900080	7	128	15	544	0	0	14	81	5	35
9800000002	4	55	0	0	0	0	76	1537	0	0
9900000002	59	41	28	23	7	6	291	287	7	6
Month Tot	89	1823	56	1248	10	36	463	4674	17	651
Y-T-D Tot	1562	30227	641	29007	101	4381	4912	46075	321	7423
NC YTD Tot	30	3400	50	4118	16	920	95	5574	47	4252
C&F Month	667	5233	580	3719	11	40	1629	9449	75	2112
C&F Y-T-D	5509	66894	2678	70423	488	6658	13594	92701	809	13123
C&F NC YTD*	146	15563	109	16628	18	1051	262	18284	56	5112

Other Manufacturing Technology

	Japan Units	Japan $000	Korea Units	Korea $000	Malaysia Units	Malaysia $000	Mexico Units	Mexico $000	Netherlands Units	Netherlands $000
1000000000	0	5585	0	1927	0	289	0	3722	0	603
2000000000	0	2918	0	964	0	139	0	1864	0	340
2710003070	0	32	0	0	0	0	0	36	0	0
8428900010	3	76	0	0	0	0	2	140	1	6
8431390090	0	46	0	15	0	0	0	224	0	89
8456100000	40	2645	2	39	0	0	0	0	8	200
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	3	4591	0	0	5	306	1	75
106070	0	0	1	663	0	0	7	628	0	0
200010	0	0	0	0	0	0	11	1181	0	0
200050	10	241	1	33	0	0	2	624	0	0
300000	1	153	0	0	0	0	6	737	2	8
400000	7	10	0	0	0	0	1	10	0	0
510010	0	0	0	0	17	219	14	345	18	90
510090	0	0	0	0	0	0	40	25	0	0
590000	163	436	0	0	0	0	7	134	2	46
800000	14	255	0	0	9	164	82	552	5	83
8479899040	12	73	1	6	0	0	1	5	0	0
908040	0	229	0	0	0	0	0	18	0	5
8537100030	2	25	6	89	2	24	0	0	0	0
9024100000	0	1292	0	224	0	70	0	228	0	57
9031100000	0	89	0	103	0	12	0	187	0	0
300000	0	55	0	0	0	0	0	33	0	0
9032810040	2451	3582	2288	117	0	0	1807	342	6295	320

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	109	1	9	0	0	1	3	13	146
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	39	1	45	3	1103	4	249
210080	0	0	0	0	0	0	2	64	0	0
290030	1	56	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	36	1	36	4	67	1	9	0	0
310080	1	44	0	0	0	0	0	0	0	0
390050	1	3	0	0	0	0	8	135	0	0
410080	1	118	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	166	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	7	0	0	1	18	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	1	29	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	5	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	12	246	1	14	0	0	0	0
900080	0	0	0	0	0	0	10	645	1	17
9800000002	1	40	0	0	0	0	1	15	1	21
9900000002	39	43	4	4	13	11	37	31	0	0
Month Tot	58	485	19	333	21	160	64	2170	19	433
Y-T-D Tot	440	5323	149	5496	306	2049	396	13664	188	4122
NC YTD Tot	7	746	25	499	2	65	26	1722	4	155
C&F Month	639	689	29	690	87	349	198	2809	51	823
C&F Y-T-D	2166	12987	809	11057	1253	6815	1141	23793	571	6170
C&F NC YTD*	25	3189	68	2136	6	1247	49	7103	10	474

Other Manufacturing Technology

1000000000	0	978	0	216	0	938	0	506	0	411
2000000000	0	180	0	85	0	129	0	69	0	157
2710003070	0	16	0	12	0	0	0	33	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	118	0	13	0	46	0	30	0	0
8456100000	2	49	0	0	0	0	0	0	1	15
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	2	138
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	1	140	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	1	8
510010	0	0	0	0	0	0	6	154	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	1	21
800000	24	228	0	0	0	0	5	320	2	45
8479899040	1	89	0	0	6	48	6	13	0	0
908040	0	0	0	76	0	29	0	0	0	0
8537100030	11	164	1	13	1	25	0	0	0	0
9024100000	0	62	0	18	0	278	0	72	0	5
9031100000	0	115	0	14	0	6	0	953	0	6
300000	0	19	0	6	0	0	0	56	0	0
9032810040	2538	183	2265	117	441	22	7334	367	34840	110

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	13	0	0
8462100030	0	0	0	0	0	0	1	462	0	0
100050	0	0	0	0	0	0	1	37	3	160
210080	2	124	0	0	0	0	1	88	3	130
290030	0	0	0	0	0	0	0	0	2	89
290040	0	0	0	0	0	0	0	0	1	12
290050	3	57	0	0	0	0	7	157	7	457
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	38	0	0	0	0	0	0
410080	1	105	0	0	0	0	1	134	0	0
490050	6	107	0	0	0	0	7	234	4	105
910060	0	0	0	0	0	0	0	0	4	45
910090	3	90	0	0	0	0	0	0	3	75
990030	0	0	0	0	0	0	1	238	1	31
990040	0	0	0	0	0	0	0	0	1	89
990060	1	289	0	0	0	0	4	885	9	290
8463100080	7	58	0	0	0	0	0	0	7	124
200080	0	0	0	0	0	0	0	0	0	0
300080	12	391	0	0	2	53	3	56	12	114
900080	2	17	0	0	0	0	4	371	19	553
9800000002	22	410	0	0	6	38	5	182	20	143
9900000002	76	65	0	0	52	43	52	43	91	65
Month Tot	135	1713	3	38	60	133	88	2901	187	2483
Y-T-D Tot	1811	31406	22	733	288	1552	1273	22886	2552	48146
NC YTD Tot	52	4692	1	136	3	79	14	1699	72	10267
C&F Month	426	3349	14	1494	228	896	400	12262	1364	7994
C&F Y-T-D	5584	70665	60	8594	1222	8014	3886	66458	9875	86070
C&F NC YTD*	241	29970	1	136	16	1222	74	19197	186	22471

Other Manufacturing Technology

1000000000	0	6359	0	139	0	1009	0	6597	0	6319
2000000000	0	1893	0	0	0	367	0	835	0	3916
2710003070	0	0	0	0	0	0	0	0	0	127
8428900010	2	206	0	0	0	0	9	88	2	18
8431390090	0	3526	0	389	0	145	0	356	0	1763
8456100000	10	904	0	0	4	102	6	741	4	100
200000	0	0	0	0	0	0	2	37	0	0
8477106010	1	36	0	0	3	990	0	0	5	365
106070	6	425	0	0	1	40	2	323	4	526
200010	0	0	0	0	0	0	0	0	0	0
200050	5	131	0	0	0	0	3	54	40	1027
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	2	3	3	39
510010	2	147	0	0	0	0	0	0	44	172
510090	0	0	0	0	0	0	0	0	2	28
590000	0	0	0	0	0	0	4	137	2	22
800000	37	390	0	0	0	0	2	631	33	961
8479899040	1	110	0	0	0	0	92	974	4	72
908040	0	173	0	0	0	0	0	101	0	50
8537100030	47	739	0	0	0	0	21	379	39	537
9024100000	0	375	0	37	0	39	0	263	0	658
9031100000	0	3	0	0	0	0	0	78	0	175
300000	0	5	0	0	0	0	0	78	0	7
9032810040	3832	234	0	0	337	44	3639	343	5339	352

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	5	181	0	0	5	181
Denmark	2	54	11	22	13	76
East Germany	0	0	0	0	0	0
Finland	24	36	3	3	27	39
Greece	0	0	2	56	2	56
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	2	663	23	128	25	790
Luxembourg	0	0	0	0	0	0
Norway	11	61	0	0	11	61
Poland	0	0	1	370	1	370
Portugal	0	0	1	7	1	7
Romania	0	0	0	0	0	0
Sweden	284	132	11	81	295	213
Turkey	15	2072	4	4	19	2075
Yugoslavia	180	7	0	0	180	7
Oth Europe	0	0	2	3	2	3
TOTAL	1647	21499	436	11134	2083	32633
NORTH AND CENTRAL AMERICA						
Bahamas	1	4	0	0	1	4
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	113	269	1	24	114	293
Dominican Rep	1	30	15	120	16	150
El Salvador	1	4	3	15	4	19
Guatemala	0	0	2	122	2	122
Haiti	0	0	0	0	0	0
Honduras	0	0	5	99	5	99
Jamaica	1	5	0	0	1	5
Panama	0	0	8	7	8	7
Trinidad	0	0	0	0	0	0
Oth N & C Am.	11	19	3	157	14	176
TOTAL	1894	13116	845	11212	2739	24327
SOUTH AMERICA						
Argentina	27	70	0	0	27	70
Bolivia	0	0	0	0	0	0
Chile	49	450	38	161	87	611
Colombia	53	151	0	0	53	151
Ecuador	36	58	2	30	38	88
Paraguay	0	0	0	0	0	0
Peru	18	55	0	0	18	55
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	379	3980	137	799	516	4779
OCEANIA						
New Zealand	14	82	2	28	16	109
Oth Oceania	1	5	0	0	1	5
TOTAL	70	294	29	1346	99	1640

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	188	565	5	35	193	600
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	20	37	13	278	33	315
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	1	8	1	8
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	22	22	1	23	23	45
Philippines	5	8	2	18	7	26
Qatar	0	0	0	0	0	0
Saudi Arabia	18	168	9	232	27	400
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	1	4	7	85	8	88
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	2269	12783	364	8095	2633	20878
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	10	206	4	93	14	299
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	64	93	8	277	72	370
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	74	299	12	370	86	669

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: January 2, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - October 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	729	50727	77	7010
301050	Electro-discharge machines, n.e.c., NC	297	17977	24	1698
301070	Electro-discharge machines, n.e.c., non-NC	302	7669	19	670
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1772	140851	167	13495
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	118	22588	15	2325
100035	Horiz. mach. ctrs., ATC	547	122513	60	.11926
100045	Mach. ctrs., n.e.c.	202	60729	14	2550
200010	Unit construction mach. (single station transfer), NC	19	2355	3	533
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	49	37076	6	5217
300090	Multi-station transfer machines, non-NC	76	35711	4	4585
8458110010	Horiz. lathes, multiple spindle, NC	253	44913	26	5001
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1894	133997	142	10026
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	507	71469	65	8775
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	47	13286	3	275
190030	Horiz. engine or toolroom lathes, non-NC	3516	36974	461	4129
190050	Automatic bar and/or chucking mach., single spindle, non-NC	773	14013	105	1386
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	122	9319	20	1076
190090	Horiz. lathes, n.e.c., non-NC	1467	14797	134	2129
911060	Vertical turret lathes, multiple spindle, NC	22	3936	1	185
911080	Vertical turret lathes, n.e.c., NC	49	9684	5	1334
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	80	9147	4	1665
991050	Vertical turret lathes, non-NC	95	4067	23	123
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1020	19896	140	1858
8459100000	Way-type unit head machines	5	1718	0	0
210080	Other drilling machines, NC	291	20628	41	3767
290040	Drilling machines, multiple spindle, non-NC	74	1869	14	99
290050	Drilling machines, radial, non-NC	397	2955	51	409
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	75	757	6	28
290090	Drilling machines, n.e.c., non-NC	407	13471	21	812
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	9	2409	4	1642
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	82	12272	14	1979
310070	Boring-milling mach., n.e.c., NC	32	2852	2	596
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	93	5893	1	4
400040	Boring machines, vertical, NC	3	1471	2	1412
400050	Boring machines, vertical, non-NC	49	1686	8	149
400070	Boring machines, n.e.c., NC	27	3282	0	0
400080	Boring machines, n.e.c., non-NC	206	5903	36	586
510080	Milling machines, knee type, NC	485	8869	39	1210
590030	Milling machines, knee type, non-NC	2786	20180	207	1521
610080	Milling machines, excl. knee type, n.e.c., NC	442	20692	18	1921
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	49	3285	1	46
690090	Milling machines, n.e.c., non-NC	728	18834	103	2025
700020	Threading or tapping machines, n.e.c., NC	139	7177	12	574
700080	Threading or tapping machines, n.e.c., non-NC	149	4456	4	82
8460110080	Flat surface grinding mach., NC	117	11335	7	1410
190010	Flat surface grinding mach., recip.-table type, non-NC	973	11323	121	932
190050	Flat surface grinding mach., n.e.c., non-NC	1649	16811	131	1365
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	432	75660	34	6324
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	417	15560	58	2108
290030	Grinding mach., internal cylindrical, non-NC	192	11204	15	596
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	982	39614	103	3211
310080	Sharpening machines (tool & cutter grinding), NC	223	5236	34	283
390050	Sharpening machines (tool & cutter grinding), non-NC	710	8568	84	788
400060	Honing or lapping machines, NC	34	4576	2	412
400080	Honing or lapping machines, non-NC	205	7858	18	294
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	47	3658	4	222
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1289	37453	117	4170
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	83	2974	0	0
200090	Shaping or slotting machines, non-NC	156	6725	4	540
300060	Broaching machines, NC	11	11152	3	2755
300080	Broaching machines, non-NC	72	4501	4	938
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	107	8850	12	787
401040	Gear shapers	30	10901	7	3876
401060	Gear cutting machines, n.e.c.	155	570	0	0
405050	Gear grinding or finishing for bevel gears	60	1679	0	0
405070	Gear grinding or finishing machines, n.e.c.	81	24389	5	4501
500050	Sawing or cutting-off machines, NC	90	5848	6	383
500090	Sawing or cutting-off machines, non-NC	1679	28762	100	1904
9000000001	Metal cutting machine tools, n.e.c.	310	16424	48	4293
9800000001	Used or rebuilt machine tools	6374	28924	1506	3788
9900000001	Machine tools valued at less than $2,500	786028	78751	119101	9604
	Cutting Total			123626	162321
	Y-T-D Cutting Total	823060	1526577		
	NC Y-T-D Cutting Total	9155	947221		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - October 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	141	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	12	252
100045	0	0	2	36	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	400	0	0	1	805
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	1	85	0	0
110090	0	0	0	0	1	15	0	0	0	0
190030	0	0	167	1326	1	12	1	50	0	0
190050	0	0	17	228	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	230
190090	0	0	1	25	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	1498
991050	0	0	0	0	0	0	1	87	18	24
995090	0	0	25	240	2	24	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	146	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	4	73
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	8	26	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	5	797	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	7	146
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	6	37	21	411	2	80
510080	0	0	0	0	0	0	0	0	0	0
590030	1	3	0	0	1	8	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	10
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	9	0	0	0	0	0	0	1	70
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	2	9	0	0	1	90
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	17	142	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	10	37	1	8	0	0
310080	0	0	0	0	1	2	0	0	0	0
390050	0	0	0	0	12	63	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	7	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	6	1	17	14	1689
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	7	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	19
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	1	232	0	0	0	0
500090	0	0	0	0	16	166	3	89	0	0
9000000001	0	0	0	0	0	0	0	0	3	11
9800000001	1	17	0	0	14	84	3	18	0	0
9900000001	2	4	0	0	18	18	136	187	2374	476
Month Tot	5	33	212	1855	113	2210	177	1118	2442	5473
Y-T-D Tot	50	1659	1974	11937	1435	18738	1683	21534	29141	49596
NC YTD Tot	3	119	7	573	42	4453	79	9079	125	16642

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - October 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	59	5693	0	0	0	0	0	0	0	0
301050	20	1321	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	79	7645	0	0	10	523	0	0	0	0
100025	8	1496	0	0	0	0	0	0	0	0
100035	41	9443	0	0	0	0	0	0	0	0
100045	1	34	0	0	0	0	0	0	1	497
200010	0	0	3	533	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	4	4147	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	19	3735	0	0	0	0	0	0	0	0
110030	108	8583	2	142	0	0	0	0	0	0
110050	55	8231	0	0	0	0	0	0	0	0
110090	2	260	0	0	0	0	0	0	0	0
190030	4	109	13	139	30	395	0	0	0	0
190050	1	11	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	700	0	0	0	0	0	0	0	0
911060	1	185	0	0	0	0	0	0	0	0
911080	5	1334	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	2	166	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	6	499	3	240	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	36	2811	0	0	0	0	0	0	0	0
290040	10	64	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	32	0	0
290070	0	0	0	0	0	0	6	28	0	0
290090	11	771	0	0	0	0	0	0	0	0
310010	2	635	0	0	0	0	0	0	0	0
310040	1	312	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	2	1412	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	5	20	0	0	0	0	109	899	0	0
610080	4	1456	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	3	816	0	0	0	0	0	0	0	0
700020	12	574	0	0	0	0	0	0	0	0
700080	2	10	0	0	0	0	1	70	0	0
8460110080	2	454	0	0	0	0	0	0	1	616
190010	2	229	0	0	44	548	0	0	0	0
190050	10	258	0	0	0	0	0	0	2	4
210080	16	2542	0	0	0	0	0	0	1	23
290010	5	1060	0	0	0	0	0	0	0	0
290030	6	153	0	0	0	0	0	0	0	0
290050	28	1690	0	0	0	0	1	167	3	2
310080	0	0	0	0	0	0	0	0	0	0
390050	11	87	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	130	0	0	0	0	0	0	2	29
900060	4	222	0	0	0	0	0	0	0	0
900080	54	1487	0	0	0	0	2	252	2	9
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	533	0	0	0	0	0	0	0	0
300060	2	272	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	1	250	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	131	0	0	0	0	0	0	0	0
500050	5	151	0	0	0	0	0	0	0	0
500090	20	736	0	0	0	0	0	0	0	0
9000000001	12	3133	0	0	0	0	0	0	0	0
9800000001	17	1484	1	3	0	0	0	0	4	357
9900000001	9721	1402	1286	158	0	0	0	0	393	530
Month Tot	10428	78925	1308	1215	84	1466	121	1448	409	2066
Y-T-D Tot	55763	741148	10704	16016	945	16303	1810	22143	2358	14231
MC YTD Tot	5346	625648	122	8570	152	7998	90	2498	17	5172

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - October 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	6	870	0	0	0	0	0	0	12	447
301050	4	377	0	0	0	0	0	0	0	0
301070	2	265	13	130	0	0	2	163	2	112
8457100015	0	0	17	1409	52	3326	3	350	5	101
100025	0	0	6	756	1	72	0	0	0	0
100035	1	1449	5	564	0	0	1	218	0	0
100045	0	0	0	0	0	0	4	1764	6	218
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	526	0	0	0	0	1	544	0	0
300090	0	0	0	0	0	0	2	3380	0	0
8458110010	0	0	0	0	0	0	5	1191	2	75
110030	1	144	6	291	12	449	0	0	13	417
110050	0	0	6	313	0	0	0	0	3	145
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	100	854	21	360	0	0	124	885
190050	3	393	32	249	0	0	0	0	52	506
190070	4	717	15	129	0	0	0	0	0	0
190090	0	0	70	661	12	196	39	494	9	53
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	4	12	0	0	0	0	0	0
995090	0	0	7	49	4	265	0	0	93	541
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	475	2	335	0	0
290040	0	0	0	0	0	0	4	34	0	0
290050	0	0	22	147	0	0	0	0	23	157
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	3	1	12	0	0
310010	0	0	1	167	1	840	0	0	0	0
310040	0	0	0	0	0	0	3	813	5	56
310070	0	0	0	0	1	589	1	7	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	4
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	4	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	6	24	1	35
510080	0	0	14	294	20	842	5	75	0	0
590030	0	0	60	237	0	0	5	142	26	214
610080	0	0	7	98	0	0	2	337	5	30
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	432	33	127	2	134	2	269	61	238
700020	0	0	0	0	0	0	0	0	0	0
700080	1	3	0	0	0	0	0	0	0	0
8460110080	0	0	1	23	0	0	1	238	0	0
190010	0	0	75	155	0	0	0	0	0	0
190050	0	0	98	793	3	38	5	114	10	57
210080	0	0	0	0	8	1895	9	1864	0	0
290010	5	689	1	81	2	54	28	82	0	0
290030	1	59	0	0	0	0	1	327	7	56
290050	3	274	1	17	6	283	42	661	8	73
310080	7	51	0	0	0	0	1	17	25	214
390050	4	226	3	26	45	217	9	170	0	0
400060	0	0	0	0	0	0	2	412	0	0
400080	0	0	0	0	12	97	1	32	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	10	3	54	7	40	8	404	22	203
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	1	2483	0	0	0	0
300080	0	0	0	0	3	13	1	925	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	1	2	0	0	0	0	5	731	5	35
401040	0	0	0	0	0	0	6	3626	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	4	4370	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	17	8	38	9	43	39	763	1	52
9000000001	0	0	1	26	0	0	5	297	27	826
9800000001	3	165	965	50	16	483	427	1102	55	24
9900000001	33	22	90517	5706	60	46	233	197	14328	859
Month Tot	88	6690	92091	13455	302-	13247	915	26485	14931	6635
Y-T-D Tot	1891	75329	608745	108943	4830	88197	11702	275377	90029	65425
NC YTD Tot	332	28796	756	25460	687	59354	844	132865	553	19995

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

RELEASED: January 2, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	336	24256	24	5530
8462100030	Headers and upsetters, including cold headers	144	13486	16	637
100050	Forging or die stamping machines, and hammers, n.e.c.	696	40397	41	3119
210080	Bending, folding, straight. or flat. mach., incl presses, NC	458	33211	18	4680
290030	Press brakes, non-NC	268	7657	30	1020
290040	Bending rolls, non-NC	86	2816	10	791
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1055	35343	82	3215
310080	Shearing machines, NC	51	3903	1	20
390050	Shearing machines, non-NC	508	14923	41	1160
410080	Punching or notching mach., incl. comb. punch & shear, NC	293	33625	22	5802
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	562	10287	32	483
910060	Hydraulic presses, NC	19	18792	2	271
910090	Hydraulic presses, non-NC	3305	16967	1025	2335
990030	Presses, n.e.c., NC	51	4820	2	382
990035	Mechanical transfer presses, non-NC	13	14901	1	65
990045	Mechanical presses, n.e.c., non-NC	155	4343	80	443
990060	Presses, n.e.c., non-NC	676	27798	81	2427
8463100080	Draw benches for bars, tubes, profiles, wire or the like	108	5848	29	1039
200080	Thread rolling machines	79	5018	16	1573
300080	Machines for working wire	1218	57047	132	4644
900080	Metal forming machine tools, n.e.c.	579	26127	58	3461
9800000002	Used or rebuilt machine tools	1299	18417	290	3684
9900000002	Machine tools valued at less than $2,500	15830	4886	2477	399
	Forming Total			4510	47181
	Y-T-D Forming Total	27789	424868		
	NC Y-T-D Forming Total	872	94351		
	Cutting and Forming Totals:				
	Monthly Total			128136	209502
	Y-T-D Total	850849	1951444		
	NC Y-T-D Total	10027	1041572		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	467702	0	51090
2000000000	Parts for working rubber or plastics - heading 8477	0	270671	0	25180
2710003070	Quenching or cutting oils	0	314	0	23
8428900010	Industrial robots for lifting, handling, loading or unload	1690	31364	138	3979
8431390080	Parts industrial robots, handling and loading - heading 8428	0	78737	0	6616
8456101010	Laser, light or photon beam for working metal, NC	148	27421	9	1731
101020	Laser, light or photon beam for working metal, non-NC	67	3641	0	0
105000	Laser, light or photon beam for other materials	543	8463	438	980
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158	1	7
205000	Ultrasonic processes for working other materials	56	195	0	0
8477103000	Injection molding mach., for manufacturing shoes	141	3071	30	149
106010	Injection molding mach., for rubber or oth. thermosetting	701	57575	99	6704
106050	Injection molding mach., for thermoplastics	2136	195697	181	12428
200010	Extruders for rubber or other thermosetting materials	186	13628	6	335
200050	Extruders for processing thermoplastics	877	55311	69	4164
300000	Blow molding machines	306	40906	27	3305
400000	Vacuum-molding and other thermoforming machines	184	7902	35	2372
510010	Machines for molding or retreading pneumatic tires	502	45147	60	7164
510090	Machines for molding or otherwise forming inner tubes	262	12212	3	376
590000	Machines for molding or otherwise forming n.e.c.	889	44225	56	2214
800000	Machines for working rubber or plastics n.e.c.	10414	100234	2013	15292
8479899040	Industrial robots, n.e.c.	13658	63559	385	9371
908040	Industrial robot parts	0	28946	0	3202
8537100030	Numerical controls for controlling machine tools	24937	39754	15608	4636
9024100000	Machines and appliances for testing metals	0	11178	0	1692
9031100000	Machines for balancing mechanical parts	0	10774	0	725
300000	Profile projectors	0	5640	0	524
9032810020	Industrial process control instr., hydraulic	136622	2057	14782	303
810060	Industrial process control instr., pneumatic	214051	4178	7362	595

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	7	832	0	0	1	65
8462100030	0	0	0	0	2	124	0	0	0	0
100050	0	0	0	0	9	248	0	0	0	0
210080	1	154	0	0	0	0	0	0	1	34
290030	9	270	0	0	19	630	0	0	0	0
290040	0	0	0	0	0	0	0	0	4	149
290050	1	5	0	0	22	237	2	23	7	59
310080	0	0	0	0	0	0	0	0	0	0
390050	15	261	0	0	7	342	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	3	45	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	25	0	0	5	1302	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	1	107	0	0
990060	2	71	0	0	29	1202	0	0	2	5
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	2	42	0	0	0	0
300080	13	569	0	0	3	254	0	0	12	324
900080	0	0	0	0	3	25	0	0	1	15
9800000002	12	289	0	0	196	1169	0	0	1	2
9900000002	0	0	0	0	7	14	1	2	87	11
Month Tot	54	1644	0	0	314	6468	4	132	116	664
Y-T-D Tot	504	19516	13	202	1814	54502	312	3239	1697	32605
NC YTD Tot	39	3364	0	0	46	4991	3	139	60	1929
C&F Month	59	1677	212	1855	427	8677	181	1250	2558	6137
C&F Y-T-D	554	21175	1987	12139	3249	73240	1995	24773	30838	82201
C&F NC YTD	42	3483	7	573	88	9444	82	9218	185	18571

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
1000000000	0	244	0	75	0	5775	0	525	0	1299
2000000000	0	81	0	0	0	5386	0	4639	0	1151
2710003070	0	0	0	0	0	18	0	0	0	0
8428900010	1	53	0	0	2	72	0	0	0	0
8431390080	0	0	0	9	0	1537	0	92	0	211
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	2	167	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	2	19	8	1112	1	161
106050	0	0	0	0	19	2106	11	357	3	262
200010	0	0	0	0	0	0	1	143	0	0
200050	0	0	0	0	13	326	0	0	1	90
300000	0	0	0	0	0	0	12	1553	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	3	27	0	0	19	385	4	1155	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	7	53	2	4	3	117
800000	126	40	0	0	9	406	1	130	44	2200
8479899040	2	15	0	0	3	254	0	0	0	0
908040	0	0	0	0	0	59	0	82	0	4
8537100030	0	0	0	0	1	29	0	0	15003	79
9024100000	0	0	0	0	0	102	0	0	0	25
9031100000	0	0	0	0	0	9	0	2	0	10
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	1	18	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	3794	0	0	0	0	0	0	0	0
8462100030	14	513	0	0	0	0	0	0	0	0
100050	25	2335	0	0	0	0	0	0	0	0
210080	7	282	0	0	0	0	1	26	1	3863
290030	2	120	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	14
290050	9	644	0	0	0	0	0	0	7	450
310080	0	0	0	0	0	0	0	0	0	0
390050	3	257	0	0	0	0	0	0	0	0
410080	4	616	0	0	0	0	0	0	1	1039
490050	7	157	0	0	0	0	15	173	0	0
910060	2	271	0	0	0	0	0	0	0	0
910090	975	978	0	0	0	0	0	0	0	0
990030	2	382	0	0	0	0	0	0	0	0
990035	1	65	0	0	0	0	0	0	0	0
990045	2	109	0	0	0	0	0	0	0	0
990060	7	248	0	0	0	0	0	0	25	81
8463100080	3	912	0	0	0	0	0	0	0	0
200080	11	1473	0	0	0	0	1	42	0	0
300080	87	2872	0	0	0	0	0	0	4	78
900080	8	1108	0	0	0	0	1	7	0	0
9800000002	27	1102	0	0	0	0	13	11	1	647
9900000002	68	89	0	0	0	0	0	0	0	0
Month Tot	1275	18329	0	0	0	0	31	258	40	6171
Y-T-D Tot	4871	163648	21	516	82	133	439	3529	550	29563
NC YTD Tot	383	31166	0	0	1	5	1	26	10	23514
C&F Month	11703	97254	1308	1215	84	1466	152	1707	449	8238
C&F Y-T-D	60634	904797	10725	16532	1027	16436	2249	25672	2908	43794
C&F NC YTD	5729	656814	122	8570	153	8003	91	2524	27	28686

Other Manufacturing Technology

1000000000	0	15534	0	10	0	336	0	200	0	1095
2000000000	0	3076	0	143	0	85	0	12	0	295
2710003070	0	5	0	0	0	0	0	0	0	0
8428900010	101	1896	0	0	0	0	0	0	23	999
8431390080	0	1164	0	11	0	2	0	0	0	30
8456101010	9	1731	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	1	762	0	0	0	0	0	0	404	30
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	26	10	0	0
106010	60	3897	2	182	0	0	0	0	0	0
106050	54	5388	4	204	1	25	0	0	0	0
200010	3	167	1	22	0	0	0	0	0	0
200050	1	527	2	8	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	2	1557	0	0	0	0	0	0	0	0
510010	13	417	0	0	0	0	0	0	0	0
510090	3	376	0	0	0	0	0	0	0	0
590000	1	3	2	35	1	30	0	0	0	0
800000	65	3303	0	0	0	0	0	0	0	0
8479899040	336	7888	0	0	0	0	1	25	14	653
908040	0	604	0	0	0	0	0	0	0	52
8537100030	551	4326	0	0	0	0	0	0	6	3
9024100000	0	308	0	0	0	0	0	0	0	0
9031100000	0	554	0	0	0	0	0	0	0	2
300000	0	209	0	0	0	0	0	0	0	0
9032810020	0	0	3700	20	0	0	0	0	0	0
810060	3	2	0	0	0	0	0	0	885	144

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
October 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	682	0	0	0	0	1	157	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	110	0	0	1	83	2	334	3	9
210080	0	0	0	0	1	27	5	289	1	5
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	4	48	0	0	1	580	0	0
290050	3	498	0	0	1	390	27	871	3	38
310080	0	0	1	20	0	0	0	0	0	0
390050	0	0	5	81	7	146	1	17	3	56
410080	1	159	0	0	0	0	13	3393	3	595
490050	1	8	0	0	5	87	0	0	1	14
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	40	4	0	0	1	6	3	20
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	50	137	0	0	27	89	0	0	0	0
990060	0	0	5	55	3	604	1	9	7	151
8463100080	0	0	0	0	0	0	26	128	0	0
200080	1	13	1	3	0	0	0	0	0	0
300080	0	0	0	0	7	33	6	513	0	0
900080	27	901	0	0	2	79	14	1311	2	15
9800000002	14	61	0	0	1	3	5	91	20	310
9900000002	384	40	420	122	7	5	343	45	1160	71
Month Tot	486	2609	476	333	62	1546	446	7745	1206	1283
Y-T-D Tot	1837	20761	6280	8168	794	12712	2463	62032	6112	13742
NC YTD Tot	23	3781	7	940	8	213	247	19403	44	4880
C&F Month	574	9299	92567	13788	364	14793	1361	34230	16137	7918
C&F Y-T-D	3728	96089	615025	117111	5624	100909	14165	337409	96141	79167
C&F NC YTD	355	32577	763	26400	695	59566	1091	152268	597	24875

Other Manufacturing Technology

1000000000	0	4257	0	1815	0	4772	0	11927	0	3227
2000000000	0	399	0	580	0	682	0	6740	0	1912
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	4	158	0	0	3	137	3	567	1	98
8431390080	0	389	0	202	0	564	0	1070	0	1335
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	30	7	1	13
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	1	7	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	4	139	0	0	0	0	0	0
106010	8	865	6	206	1	7	2	36	9	220
106050	5	522	12	415	1	10	60	2705	11	435
200010	1	3	0	0	0	0	0	0	0	0
200050	0	0	1	80	25	303	24	2813	2	18
300000	0	0	5	191	0	0	6	1541	4	21
400000	0	0	0	0	1	4	32	811	0	0
510010	0	0	0	0	0	0	21	5181	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	2	20	0	0	22	1448	16	506
800000	0	0	26	259	8	120	1684	7627	50	1206
8479899040	3	258	0	0	0	0	3	165	23	113
908040	0	36	0	6	0	446	0	1815	0	97
8537100030	0	0	0	0	0	0	47	199	0	0
9024100000	0	35	0	4	0	293	0	897	0	28
9031100000	0	0	0	0	0	23	0	124	0	0
300000	0	14	0	0	0	233	0	37	0	30
9032810020	641	14	0	0	1202	6	18	113	9221	149
810060	0	0	6012	25	11	7	20	279	430	121

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	99	529	0	0	99	529
Bulgaria	0	0	0	0	0	0
Czechoslovakia	4	66	0	0	4	66
Denmark	31	161	2	7	33	167
East Germany	0	0	0	0	0	0
Finland	0	0	3	595	3	595
Hungary	7	318	0	0	7	318
Ireland	13	4	0	0	13	4
Luxembourg	0	0	1	3	1	3
Netherlands	67	835	155	204	222	1039
Norway	0	0	0	0	0	0
Poland	45	445	0	0	45	445
Portugal	40	126	3	56	43	182
Romania	0	0	0	0	0	0
USSR	10	296	0	0	10	296
Yugoslavia	7	56	0	0	7	56
Oth Europe	0	0	0	0	0	0
TOTAL	4782	59395	1403	21634	6185	81029
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	3	9	5	42	8	51
Oth N & C Am.	0	0	0	0	0	0
TOTAL	116	2219	319	6509	435	8728
SOUTH AMERICA						
Argentina	3	55	0	0	3	55
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	215	1910	0	0	215	1910
OCEANIA						
Australia	26	233	1	14	27	247
New Zealand	0	0	47	10	47	10
Oth Oceania	0	0	0	0	0	0
TOTAL	26	233	48	24	74	257

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
October 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	14531	2680	934	176	15465	2856
Hong Kong	3	48	0	0	3	48
India	23	107	40	6	63	113
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	7	221	4	41	11	262
Malaysia	0	0	1	31	1	31
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	12	447	0	0	12	447
Oth Asia	0	0	10	99	10	99
TOTAL	118487	98564	2740	19014	121227	117578
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

SPECIAL ADDENDUM

Revision to OCTOBER 1990
U.S. Imports of Machine Tools

The U.S. Bureau of the Census has notified us of two classification errors in the October 1990 montnly data:

1. Imports in October from Japan under code 8462910090 "Hydraulic Presses, non-NC" are shown as 975 units valued at $978,000. This should be changed to 9 units valued at $309,000 and "used and rebuilt" (code 9800000002) should be increased by 1 unit valued at $669,000.

2. Imports in October from Italy under code 8537100030 "Numerical controls for controlling machine tools" are shown as 15,003 units valued at $79,000. This should be changed to three units valued at $3,000.

The revisions were received too late for the detailed monthly and year-to-date import data to be corrected this month. However, the revisions will be reflected in the year-to-date totals next month.

The chart entitled "1990 U.S. Imports by Product Groups" does reflect the revisions.

AY626-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 01-91 January 2, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – OCTOBER 1990

(Values in Millions of U.S. Dollars)

	Oct. 1990	Sept. 1990	Average Jul-Sep	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 52.0	$ 52.3	$ 48.9	$ 505.9	$ 403.7	25.3%
Imports	$162.3	$137.6	$173.6	$1,526.6	$1,574.5	(3.0%)
Balance	($110.3)	($ 85.3)	($124.7)	($1,020.7)	($1,170.8)	(12.8%)
METAL FORMING MACHINE TOOLS						
Exports	$ 33.0	$ 34.3	$ 34.8	$ 377.2	$ 383.3	(1.6%)
Imports	$ 47.2	$ 42.9	$ 48.6	$ 424.9	$ 462.1	(8.1%)
Balance	($ 14.2)	($ 8.6)	($ 13.8)	($ 47.7)	($ 78.8)	(39.5%)
MACHINE TOOL TOTAL						
Exports	$ 84.9	$ 86.5	$ 83.7	$ 883.0	$ 787.0	12.2%
Imports	$209.5	$180.5	$222.2	$1,951.4	$2,036.6	(4.2%)
Balance	($124.6)	($ 94.0)	($138.5)	($1,068.4)	($1,249.6)	(14.5%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 27.3	$ 28.3	$ 28.0	$ 286.6	$ 209.9	36.5%
Imports	$110.3	$ 97.9	$120.0	$1,041.6	$1,094.3	(4.8%)
Balance	($ 83.0)	($ 69.6)	($ 92.0)	($ 755.0)	($ 884.4)	(14.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$160.4	$149.3	$145.6	$1,517.7	NA	NA
Imports	$165.2	$140.4	$159.4	$1,630.7	NA	NA
Balance	($ 4.8)	$ 8.9	($ 13.8)	($ 113.0)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

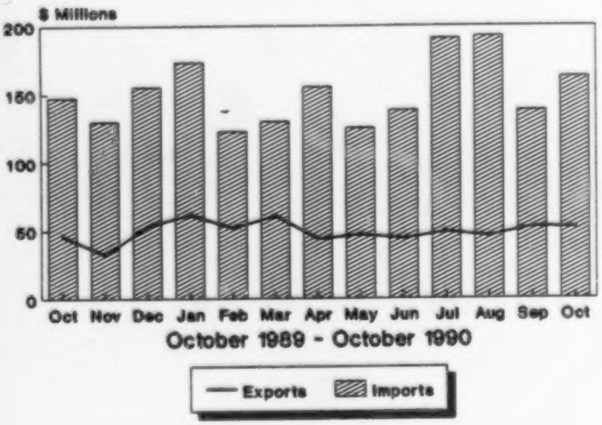
- Machine tool imports in October jumped to $209.5 million; for the fourth time this year (and the third time in the previous four months) imports exceeded $200 million.

- Year-to-date imports were down 4% from 1989; year-to-date imports of NC machines were down 5% from 1989.

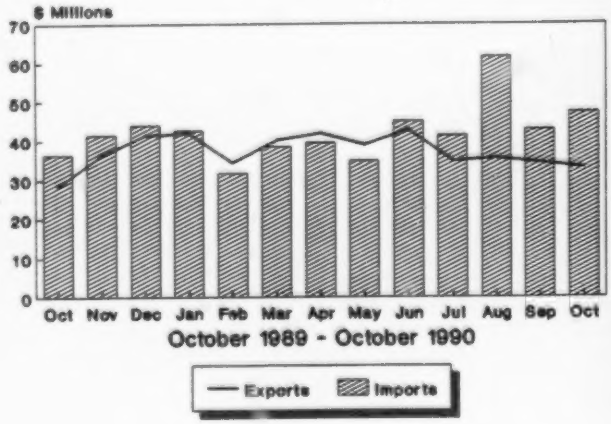
- Exports of machine tools fell 2% in October from September to $84.9 million. However, year-to-date exports were 12% higher than last year at this time. Year-to-date exports of NC machines were 37% higher than last year.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

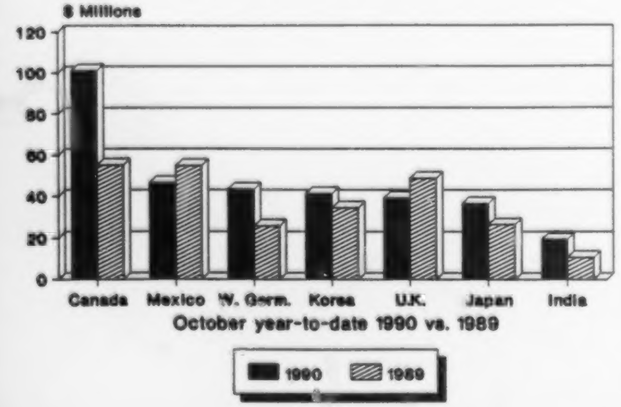
Exports

- Year-to-date exports of metal cutting machines were $505.9 million, up 25% over 1989. Year-to-date exports of machining centers were $49.3 million, up from $36.9 million at this time in 1989.

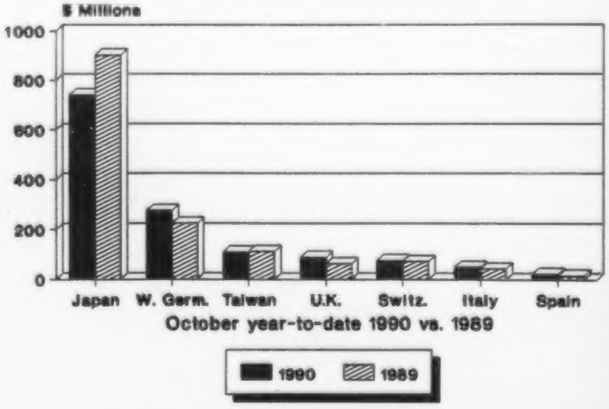
- U.S. metal cutting machine tool exports to Germany in October were $9.4 million, for a September-October total of $18.4 million. The total for January-August 1990: $25.2 million.

- Some small but growing markets for metal cutting machines: Malaysia ($2.3 million in 1990 through October vs. $1.0 million in 1989 at this time); Chile ($3.7 million vs. $1.4 million); South Africa ($2.9 million vs. $1.0 million); and Portugal ($1.2 million vs. $0.1 million).

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Metal cutting machine tool imports rose 18% in October to $137.6 million. Year-to-date imports were $1.5 billion, down 3% from 1989.

- Imports from Japan in October were $78.9 million, up slightly from September. Year-to-date imports from Japan were down 18% compared with 1989; imports from Taiwan were down 2%.

- In terms of value, year-to-date imports of gear cutting machines were up 34% in 1990 through October to $46.4 million. In unit terms, however, imports were down 28% to 433 units.

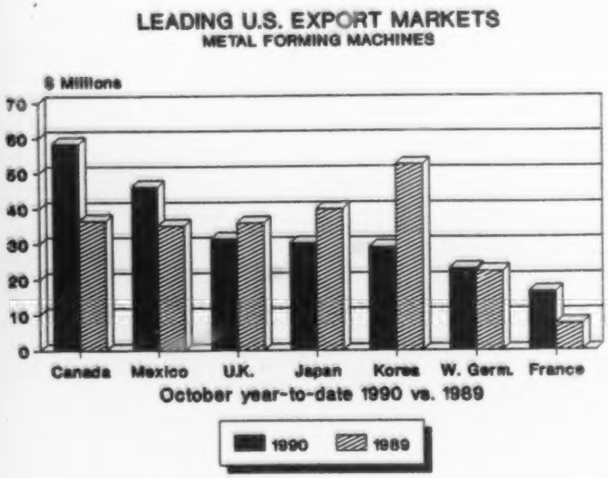
METAL FORMING MACHINE TOOLS

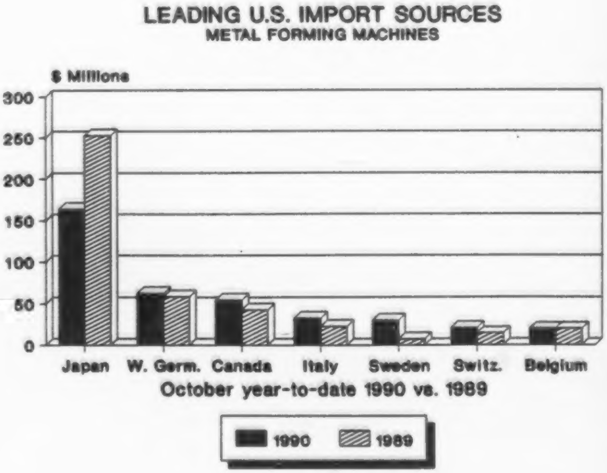
Exports

- Metal forming exports in September were $33.0 million, the lowest monthly total since October 1989. Year-to-date exports of $377.2 million were down 2% from 1989.

- Small but growing markets for metal forming machines include Malaysia ($4.4 million so far in 1990, up from $1.5 million in 1989); Austria ($2.3 million vs. $0.7 million); Portugal ($2.5 million vs. $0.6 million); and Greece ($4.8 million vs. $1.4 million.)

- Year-to-date 1990 exports of forging machines were down 52% in unit terms (317 machines vs. 655 machines) compared with 1989 but up 31% in value terms ($40.8 million vs. $31.2 million).


LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES


LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- Year-to-date imports of metal forming machines were $424.9 million in 1990 through October, down 8% from 1989. Imports from Sweden reached $29.6 million so far in 1990, up 321% from 1990.

- Year-to-date imports of punching and shearing machines were down 7% in unit terms and down 2% in value terms. Imports of bending and forming machines were down 14% in unit terms but up 2% in value terms.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of other manufacturing technology rose in October to $160.4 million from $149.3 million in September. The average for 1990: $151.8 million.

- Year-to-date exports of machine tool parts and accessories were $596.3 million, down from $598.8 million in 1989 at this time.

- Year-to-date exports of industrial robots were $53.4 million, up from $38.8 million in 1989. The primary markets so far in 1990: Canada ($28.4 million), Germany ($9.4 million), and France ($3.3 million.)

Imports

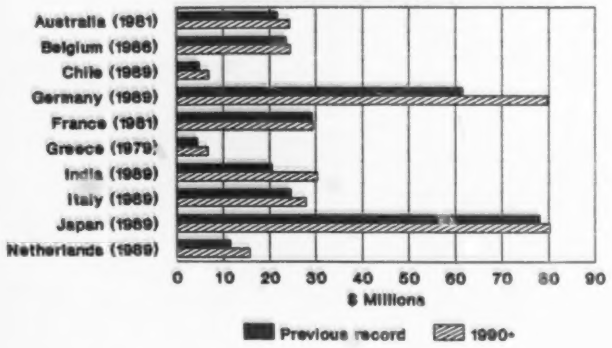
- Year-to-date imports of injection molding machinery were $253.2 million in 1990 through October, down from $295.3 million at the same time in 1989.

- Imports of industrial robots in October were $13.4 million. The average for 1990 through October: $9.5 million.

MONTHLY FOCUS

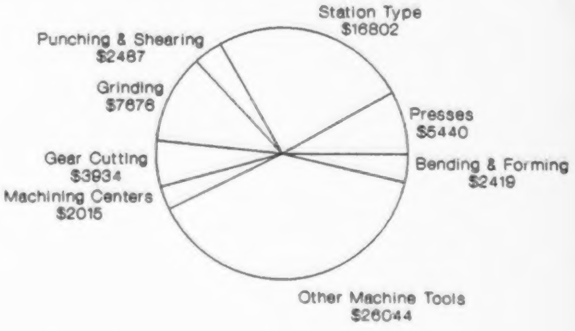
U.S. machine tool exports to Germany in 1990 through October totalled $66.8 million, which already exceeds the previous annual record of $61.6 million set last year. (Both figures include U.S. exports to what was East Germany.) U.S. exports to many other countries are on pace to exceed previous records. The first chart below compares estimated U.S. exports for 1990 (January-October annualized) for selected countries with the previous record high for that country. (The year the previous record was set is in parentheses after the country name.) The second chart breaks down U.S. exports to Germany so far in 1990 by type of machine.

U.S. Machine Tool Exports
Selected Countries
Previous Record vs. 1990*



* = January-October annualized

U.S. Machine Tool Exports to Germany
By Type of Machine, January-October 1990
(Values in thousands of dollars)



Total = $66.8 million

1990 EXPORTS

METAL CUTTING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Canada	$ 8,009,551	$ 8,820,209	-9.19%	$101,088,818	$55,151,307	83.29%
Mexico	4,774,615	3,448,498	38.45	46,626,365	55,026,254	-15.27
West Germany	9,360,107	8,985,424	4.17	43,572,695	25,765,205	69.11
Korea	2,470,923	4,955,401	-50.14	41,415,583	34,558,262	19.84
U.K.	1,636,685	1,863,521	-12.17	39,258,538	48,819,004	-19.58
Japan	3,409,493	6,269,146	-45.61	36,667,705	26,400,307	38.89
India	2,621,956	1,225,769	113.90	19,218,512	10,629,190	80.81
Belgium	672,276	723,105	-7.03	17,859,291	6,289,180	183.97
China	2,107,884	1,400,090	50.55	17,660,681	23,950,949	-26.26
Italy	2,159,265	719,809	199.98	15,362,054	11,768,594	30.53
Australia	208,074	547,544	-62.00	14,199,046	8,632,504	64.48
Brazil	2,432,266	983,665	147.27	13,880,566	9,132,011	52.00
Taiwan	638,581	744,257	-14.20	10,129,359	7,719,779	31.21
France	982,580	866,101	13.45	8,099,748	10,537,720	-23.14
USSR	1,456,509	2,697,820	-46.01	7,861,503	8,975,415	-12.41
Singapore	203,753	1,383,615	-85.27	7,663,635	7,181,146	6.72
Venezuela	763,086	997,211	-23.48	6,462,321	5,408,868	19.48
Netherlands	1,460,486	189,199	671.93	5,700,502	3,559,887	60.13
Spain	357,536	743,250	-51.90	5,561,028	2,997,275	85.54
Switzerland	189,334	71,193	165.94	4,766,425	3,339,228	42.74
Malaysia	3,974	122,661	-96.76	2,277,314	990,120	130.00
Thailand	390,111	269,370	44.82	2,047,758	2,143,259	-4.46
Indonesia	132,432	6,725	1,869.25	305,409	4,129,863	-92.60
Austria	17,856	0	NA	244,613	1,253,499	-80.49

METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Canada	$ 5,993,872	$ 6,624,036	-9.51%	$ 58,432,886	$36,559,038	59.83%
Mexico	4,674,003	4,268,853	9.49	46,075,046	35,067,784	31.39
U.K.	1,712,686	2,455,806	-30.26	31,406,046	35,884,018	-12.48
Japan	1,823,012	2,263,121	-19.45	30,226,669	39,831,966	-24.11
Korea	1,248,488	729,642	71.11	29,007,336	52,353,396	-44.59
West Germany	2,901,401	2,874,086	0.95	22,885,712	22,196,408	3.11
France	3,898,667	728,851	434.91	16,432,765	7,447,424	120.65
Taiwan	2,170,263	1,324,220	63.89	13,664,036	17,293,017	-20.99
China	118,924	938,263	-87.33	12,433,466	10,092,651	23.19
Italy	583,583	631,394	-7.57	7,859,668	7,218,406	8.88
Netherlands	651,242	1,056,874	-38.38	7,422,900	6,249,903	18.77
Indonesia	936,240	1,296,993	-27.81	6,572,707	167,461	3,824.92
India	164,688	155,782	5.72	6,057,465	8,596,867	-29.54
Australia	1,318,002	798,437	65.07	6,031,618	6,290,285	-4.11
Brazil	475,104	393,830	20.64	5,[illegible]1,475	6,537,473	-8.66
Spain	332,733	522,896	-36.37	5,495,561	3,768,141	45.84
Singapore	485,028	558,499	-13.16	5,323,021	7,062,393	-24.63
Malaysia	36,499	306,262	-88.08	4,380,532	1,497,528	192.52
Thailand	432,521	82,288	425.62	4,122,453	3,456,071	19.28
Belgium	37,930	227,979	-83.36	2,576,928	2,389,073	7.86
Austria	145,196	55,156	163.25	2,309,218	681,490	238.85
Switzerland	160,001	201,015	-20.40	2,048,537	1,336,853	53.24
Venezuela	133,293	390,369	-65.85	1,551,657	7,834,948	-80.20
USSR	37,846	0	NA	732,665	976,510	-24.97

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Canada	$14,003,423	$15,444,245	-9.33%	$159,521,704	$91,710,345	73.94
Mexico	9,448,618	7,717,351	22.43	92,701,411	90,094,038	2.89
U.K.	3,349,371	4,319,327	-22.46	70,664,584	84,703,022	-16.57
Korea	3,719,411	5,685,043	-34.58	70,422,919	86,911,658	-18.97
Japan	5,232,505	8,532,267	-38.67	66,894,374	66,232,273	1.00
West Germany	12,261,508	11,859,510	3.39	66,458,407	47,961,613	38.57
China	2,226,808	2,338,353	-4.77	30,094,147	34,043,600	-11.60
India	2,786,644	1,381,551	101.70	25,275,977	19,226,057	31.47
France	4,881,247	1,594,952	206.04	24,532,513	17,985,144	36.40
Taiwan	2,808,844	2,068,477	35.79	23,793,395	25,012,796	-4.88
Italy	2,742,848	1,351,203	102.99	23,221,722	18,987,000	22.30
Belgium	710,206	951,084	-25.33	20,436,219	8,678,253	135.49
Australia	1,526,076	1,345,981	13.38	20,230,664	14,922,789	35.57
Brazil	2,907,370	1,377,495	111.06	19,852,041	15,669,484	26.69
Netherlands	2,111,728	1,246,073	69.47	13,123,402	9,809,790	33.78
Singapore	688,781	1,942,114	-64.53	12,986,656	14,243,539	-8.82
Spain	690,269	1,266,146	-45.48	11,056,589	6,765,416	63.43
USSR	1,494,355	2,697,820	-44.61	8,594,168	9,951,925	-13.64
Venezuela	896,379	1,387,580	-35.40	8,013,978	13,243,816	-39.49
Indonesia	1,068,672	1,303,718	-18.03	6,878,116	4,297,324	60.06
Switzerland	349,335	272,208	28.33	6,814,962	4,676,081	45.74
Malaysia	40,473	428,923	-90.56	6,657,846	2,487,648	167.64
Thailand	822,632	351,658	133.93	6,170,211	5,599,330	10.20
Austria	163,052	55,156	195.62	2,553,831	1,934,989	31.98

1990 IMPORTS

METAL CUTTING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Japan	$78,925,103	$76,786,328	2.79%	$741,148,285	$ 901,849,661	-17.82%
West Germany	26,485,175	24,174,207	9.56	275,377,364	224,625,602	22.59
Taiwan	13,455,165	8,693,755	54.77	108,942,915	111,458,031	-2.26
U.K.	13,247,088	5,883,753	125.15	88,197,338	63,337,947	39.25
Switzerland	6,689,540	6,220,985	7.53	75,328,515	71,965,311	4.67
Italy	5,472,770	2,630,744	108.03	49,596,329	43,181,219	14.86
Spain	1,448,355	575,155	151.82	22,142,865	15,697,302	41.06
France	1,117,947	411,970	171.37	21,534,053	18,891,931	13.99
Canada	2,209,783	1,313,765	68.20	18,737,822	17,110,238	9.51
Singapore	1,465,875	1,174,361	24.82	16,303,496	14,290,650	14.09
Korea	1,214,833	1,111,870	9.26	16,015,775	21,669,137	-26.09
Sweden	2,066,473	927,290	122.85	14,230,935	10,879,218	30.81
Brazil	1,854,603	586,911	215.99	11,936,937	5,915,178	101.80
Belgium	32,761	393,197	-91.67	1,658,675	4,512,154	-63.24

METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Japan	$18,328,796	$18,556,702	-1.23%	$163,648,436	$ 252,667,813	-35.23%
West Germany	7,744,878	5,514,397	40.45	62,031,709	58,239,351	6.51
Canada	6,467,509	5,409,200	19.56	54,502,252	42,114,629	29.41
Italy	663,747	828,127	-19.85	32,604,530	22,750,665	43.31
Sweden	6,171,465	5,552,986	11.14	29,562,800	7,019,016	321.18
Switzerland	2,608,965	1,871,888	39.38	20,760,975	14,226,925	45.93
Belgium	1,643,832	327,216	402.37	19,515,967	19,526,102	-0.05
U.K.	1,546,029	1,320,038	17.12	12,711,659	12,496,062	1.73
Taiwan	332,877	654,271	-49.12	8,168,472	7,345,382	11.21
Spain	258,240	191,671	34.73	3,529,150	2,415,601	46.10
France	131,974	289,083	-54.35	3,239,064	1,481,934	118.57
Korea	0	1,391	-100.00	515,738	328,799	56.86
Brazil	0	2,406	-100.00	202,406	4,517,850	-95.52
Singapore	0	62,380	-100.00	132,580	819,834	-83.83

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	OCTOBER	SEPTEMBER	%CHANGE	OCT YTD'90	OCT YTD'89	%CHANGE
Japan	$97,253,899	$95,343,030	2.00%	$904,796,721	$1,154,517,474	-21.63%
West Germany	34,230,053	29,688,604	15.30	337,409,073	282,864,953	19.28
Taiwan	13,788,042	9,348,026	47.50	117,111,387	118,803,413	-1.42
U.K.	14,793,117	7,203,791	105.35	100,908,997	75,834,009	33.07
Switzerland	9,298,505	8,092,873	14.90	96,089,490	86,192,236	11.48
Italy	6,136,517	3,458,871	77.41	82,200,859	65,931,884	24.68
Canada	8,677,292	6,722,965	29.07	73,240,074	59,224,867	23.66
Sweden	8,237,938	6,480,276	27.12	43,793,735	17,898,234	144.68
Spain	1,706,595	766,826	122.55	25,672,015	18,112,903	41.73
France	1,249,921	701,053	78.29	24,773,117	20,373,865	21.59
Belgium	1,676,593	720,413	132.73	21,174,642	24,038,256	-11.91
Korea	1,214,833	1,113,261	9.12	16,531,513	21,997,936	-24.85
Singapore	1,465,875	1,236,741	18.53	16,436,076	15,110,484	8.77
Brazil	1,854,603	589,317	214.70	12,139,343	10,433,028	16.35

1990 U.S. EXPORTS
BY PRODUCT GROUPS

	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

	SEPTEMBER 1990		OCTOBER 1990		OCT'90 Y-T-D TOTALS		OCTOBER 1989	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	6,399	11,915,072	51,700	134,508,595	4,883	8,099,179
Boring Machines	13	892,848	12	613,537	142	14,983,859	4	274,938
Drilling Machines	72	2,247,262	60	937,232	871	15,847,675	338	2,562,057
Gear Cutting Machines	16	8,205,773	33	4,217,786	208	48,118,445	16	5,122,064
Grinding Machines	412	8,753,533	346	10,933,219	3,236	109,038,158	465	12,020,573
Horizontal Lathes NC	29	3,059,742	25	2,408,221	354	37,670,581	29	3,070,304
Vertical Lathes NC	5	2,322,630	9	1,621,356	62	11,764,804	2	360,933
Lathes Non-NC	51	1,033,985	61	1,218,831	631	14,162,649	39	961,735
Milling Machines	38	5,262,002	51	2,190,381	385	32,032,110	42	3,215,606
Machining Centers	13	2,443,148	52	4,679,669	342	49,283,638	48	2,579,397
Station Type Machines	5	5,650,047	8	8,910,384	64	35,627,330	6	5,512,170
Other Metal Cutting	288	5,325,005	490	7,249,997	3,398	64,972,575	245	4,983,895
Punching & Shearing Machines	56	3,258,296	111	4,695,896	1,223	53,435,670	54	2,888,326
Bending & Forming Machines	165	8,316,381	139	6,554,180	1,543	59,118,637	94	5,361,439
Presses	126	5,543,751	89	4,543,803	1,787	78,735,878	144	8,502,848
Forging Machines	12	2,088,733	30	3,804,635	317	40,776,860	52	1,933,851
Other Metal Forming	168	8,580,087	241	8,430,558	2,580	82,942,568	175	6,758,040
TOTAL	6,687	86,524,911	8,156	84,924,757	68,843	883,020,032	6,636	74,207,355

	OCT'89 Y-T-D TOTALS		% CHANGE SEP 90' - OCT 90'		% CHANGE OCT 89' - OCT 90'		% CHANGE YTD 89' - YTD 90'	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	49,101	119,156,597	22.63	-12.01	31.05	47.11	5.29	12.88
Boring Machines	215	13,015,248	-7.69	-31.28	200.00	123.15	-33.95	15.13
Drilling Machines	627	15,589,514	-16.67	-58.29	-82.25	-63.42	38.92	1.66
Gear Cutting Machines	208	33,359,128	106.25	-48.60	106.25	-17.65	0.00	44.24
Grinding Machines	3,333	110,416,992	-16.02	24.90	-25.59	-9.05	-2.91	-1.25
Horizontal Lathes NC	212	23,381,130	-13.79	-21.29	-13.79	-21.56	66.98	61.12
Vertical Lathes NC	17	2,394,324	80.00	-30.19	350.00	349.21	264.71	391.36
Lathes Non-NC	426	11,378,931	19.61	17.88	56.41	26.73	48.12	24.46
Milling Machines	488	26,073,183	34.21	-58.37	21.43	-31.88	-21.11	22.85
Machining Centers	307	36,860,639	300.00	91.54	8.33	81.42	11.40	33.70
Station Type Machines	50	23,956,411	60.00	57.70	33.33	61.65	28.00	48.72
Other Metal Cutting	2,040	49,791,389	70.14	36.15	100.00	45.47	66.57	30.49
Punching & Shearing Machines	998	48,523,950	98.21	44.12	105.56	62.58	22.55	10.12
Bending & Forming Machines	873	42,048,533	-15.76	-21.19	47.87	22.25	76.75	40.60
Presses	1,280	68,502,430	-29.37	-18.04	-38.19	-46.56	39.61	14.94
Forging Machines	655	31,160,175	150.00	82.15	-42.31	96.74	-51.60	30.86
Other Metal Forming	3,355	131,363,164	43.45	-1.74	37.71	24.75	-23.10	-36.86
TOTAL	64,185	786,971,738	21.97	-1.85	22.91	14.44	7.26	12.20

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		OCT'90 Y-T-D TOTALS		OCTOBER 1989	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	123,375	18,144,453	809,532	131,647,442	95,522	14,140,579
Boring Machines	52	3,494,230	67	6,367,793	528	37,767,759	49	4,088,258
Drilling Machines	49	2,266,373	133	5,115,447	1,244	39,680,949	173	3,361,060
Gear Cutting Machines	69	4,625,890	24	9,163,879	433	46,390,283	74	1,105,796
Grinding Machines	616	25,521,740	728	22,115,629	7,270	248,857,427	638	19,102,185
Horizontal Lathes NC	194	20,111,149	236	24,077,544	2,701	263,664,955	337	30,842,516
Vertical Lathes NC	4	689,943	10	3,183,656	151	22,766,359	7	999,385
Lathes Non-NC	500	7,286,875	883	10,701,325	6,993	99,065,666	559	8,388,713
Milling Machines	363	7,383,527	368	6,724,436	4,523	72,203,767	612	11,233,029
Machining Centers	147	27,592,987	256	30,295,646	2,639	346,680,338	391	41,245,342
Station Type Machines	14	14,932,439	13	10,334,968	151	77,377,945	8	2,259,660
Other Metal Cutting	233	14,697,321	301	20,848,312	4,025	164,445,839	373	13,539,820
Punching & Shearing Machines	103	4,806,367	96	7,464,655	1,414	62,737,179	178	5,569,235
Bending & Forming Machines	161	5,831,579	140	9,706,668	1,867	79,027,698	168	6,669,577
Presses	416	10,399,978	225	5,254,258	3,253	86,952,822	205	7,367,625
Forging Machines	144	8,927,234	57	3,756,734	840	53,882,477	220	6,080,592
Other Metal Forming	204	10,822,213	259	16,246,525	2,320	118,295,533	1,322	7,845,154
TOTAL	81,753	180,539,323	127,171	209,501,928	849,884	1,951,444,438	100,836	183,838,526

PRODUCT TYPES	OCT'89 Y-T-D TOTALS		% CHANGE SEP'90 - OCT'90		% CHANGE OCT'89 - OCT'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	622,713	136,838,312	57.20	62.74	29.16	28.31	30.00	-3.79
Boring Machines	693	50,350,890	28.85	82.24	36.73	55.76	-23.81	-24.99
Drilling Machines	1,587	66,350,009	171.43	125.71	-23.12	52.20	-21.61	-40.19
Gear Cutting Machines	605	34,561,871	-65.22	98.10	-67.57	728.71	-28.43	34.22
Grinding Machines	6,753	237,950,050	18.18	-13.35	14.11	15.78	7.66	4.58
Horizontal Lathes NC	3,560	324,288,524	21.65	19.72	-29.97	-21.93	-24.13	-18.69
Vertical Lathes NC	127	20,173,444	150.00	361.44	42.86	218.56	18.90	12.85
Lathes Non-NC	4,547	73,450,608	76.60	46.86	57.96	27.57	53.79	34.87
Milling Machines	5,089	98,852,135	1.38	-8.93	-39.87	-40.14	-11.12	-26.96
Machining Centers	3,165	344,945,931	74.15	9.79	-34.53	-26.55	-16.62	0.50
Station Type Machines	172	51,814,542	-7.14	-30.79	62.50	357.37	-12.21	49.34
Other Metal Cutting	4,139	155,665,943	29.18	41.85	-19.30	53.98	-2.75	5.64
Punching & Shearing Machines	1,523	63,977,924	-6.80	55.31	-46.07	34.03	-7.16	-1.94
Bending & Forming Machines	2,183	77,256,263	-13.04	66.45	-16.67	45.54	-14.48	2.29
Presses	1,600	129,044,324	-45.91	-49.48	9.76	-28.68	103.31	-32.62
Forging Machines	1,409	73,120,934	-60.42	-57.92	-74.09	-38.22	-40.38	-26.31
Other Metal Forming	5,240	97,971,709	26.96	50.12	-80.41	107.09	-55.73	20.74
TOTAL	665,105	2,036,613,413	55.56	16.04	26.12	13.96	27.78	-4.18

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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 11-91 January 30, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – NOVEMBER 1990

(Values in Millions of U.S. Dollars)

	Nov. 1990	Oct. 1990	Average Aug-Oct	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 44.9	$ 52.0	$ 49.9	$ 550.7	$ 435.7	26.4%
Imports	$107.6	$162.3	$164.1	$1,634.2	$1,704.0	(4.1%)
Balance	($ 62.7)	($110.3)	($114.2)	($1,083.5)	($1,268.3)	(14.6%)
METAL FORMING MACHINE TOOLS						
Exports	$ 42.3	$ 33.0	$ 34.2	$ 419.5	$ 419.6	0.0%
Imports	$ 57.9	$ 47.2	$ 50.5	$ 482.8	$ 503.6	(4.1%)
Balance	($ 15.6)	($ 14.2)	($ 16.3)	($ 63.3)	($ 84.0)	(24.6%)
MACHINE TOOL TOTAL						
Exports	$ 87.2	$ 84.9	$ 84.1	$ 970.2	$ 855.3	13.4%
Imports	$165.5	$209.5	$214.6	$2,117.0	$2,207.6	(4.1%)
Balance	($ 78.3)	($124.6)	($130.5)	($1,146.8)	($1,352.3)	(15.2%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.4	$ 27.3	$ 27.8	$ 304.4	$ 225.5	35.0%
Imports	$ 73.6	$110.3	$116.9	$1,115.2	$1,189.6	(6.3%)
Balance	($ 45.2)	($ 83.0)	($ 89.1)	($ 810.8)	($ 964.1)	(15.9%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$153.2	$160.4	$153.8	$1,510.5	NA	NA
Imports	$153.8	$165.2	$159.7	$1,619.3	NA	NA
Balance	($ 0.6)	($ 4.8)	($ 5.9)	($ 108.8)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

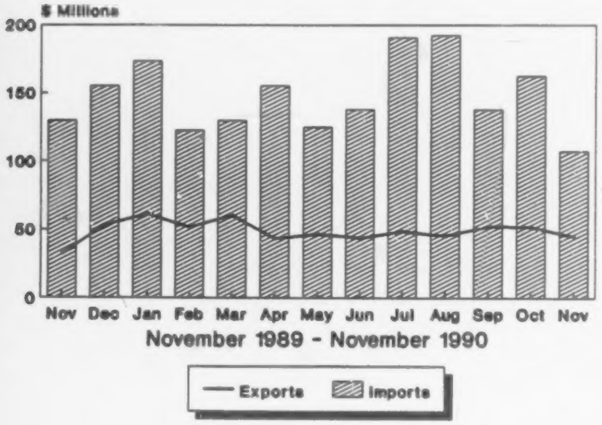
- U.S. machine tool exports in November rose 3% from October to $87.2 million, the highest monthly total since March 1990.

- Year-to-date exports in 1990 through November were $970.2 million, up 13% over 1989 at this time.

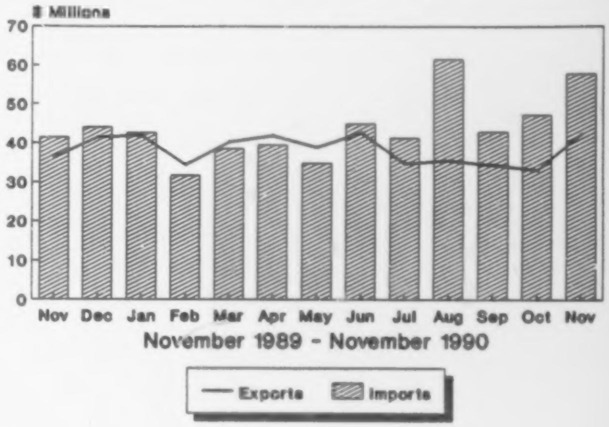
- Machine tool imports fell 21% in November to $165.5 million, down from $209.5 million in October.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

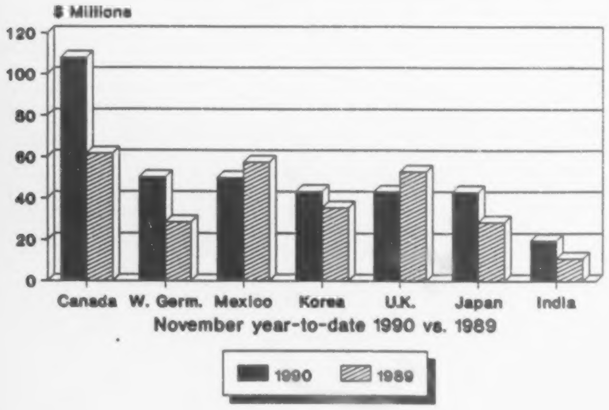
Exports

- Year-to-date exports of metal cutting machines were $550.7 million, up 26% over 1989. Exports in November of $44.9 million were down 14% from October.

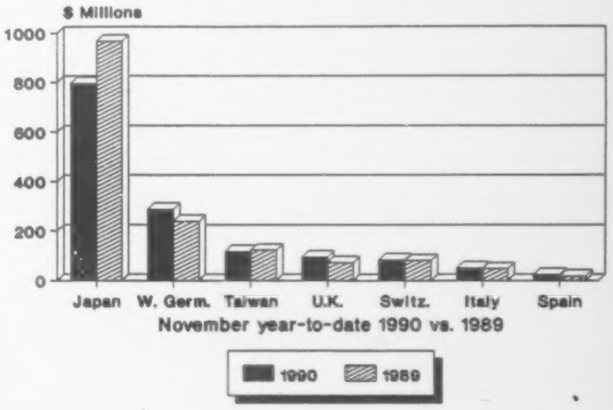
- Year-to-date exports of gear cutting machines totalled $52.4 million in 1990 through November, up from $38.3 million in 1989 at this time. Year-to-date exports of grinding machines were up 3% over 1989 to $119.5 million.

- Exports to Canada in 1990 through November ($107.9 million) accounted for 20% of total metal cutting exports; the top five export markets (Canada, Germany, Mexico, South Korea, and the United Kingdom) account for 53% of total metal cutting exports.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Metal cutting machine tool imports in November were $107.6 million, the lowest monthly total since September 1988. The monthly average in 1990 through November: $148.6 million.

- The top five year-to-date import sources for metal cutting machines (Japan, Germany, Taiwan, the United Kingdom and Switzerland) account for 84% of total metal cutting imports.

- Imports of NC horizontal lathes in November were 126 units valued at $12.9 million. Both figures were by far the lowest monthly totals so far in 1990.

METAL FORMING MACHINE TOOLS

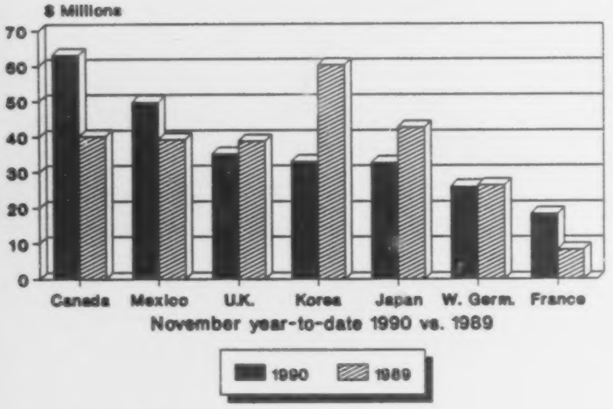
Exports

- Year-to-date exports of metal forming machines were $419.5 million, almost exactly equal to the total last year at this time. Exports in November of $42.3 million were up 28% over October.

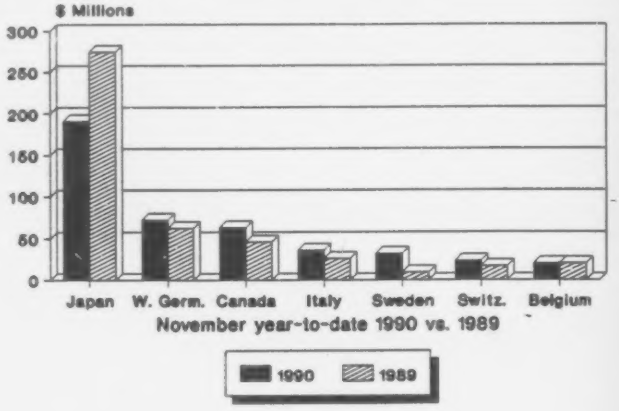
- Canada remains the largest year-to-date export market at $63.1 million, up 57% over 1989. Other big gainers include Mexico (up 27% to $49.8 million) and France (up 122% to $18.3 million).

- Exports of presses in November were $11.3 million for a year-to-date total of $90.0 million, 19% higher than 1989. In unit terms, exports of presses are up 32% to 1,900.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Year-to-date imports of metal forming machines were $482.8 million in 1990 through November, down 4% from 1989. The top five import sources accounted for 81% of total imports in 1990 through November.

- Year-to-date imports from Japan were down 30% from 1989 to $190.9 million; imports from Germany were up 16% and imports from Canada were up 37%.

- Year-to-date imports of presses were up 95% in unit terms but down 23% in value terms compared with 1989.

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of other manufacturing technology in November were $153.2 million, down slightly from October. Exports of machine tool parts and accessories were $67.5 million, up from the 1990 average of $60.3 million.

- Exports of numerical controls for controlling machine tools were $27.2 million in November, down from $37.7 million in 1989 through November. The largest markets in 1990 so far: the United Kingdom ($9.9 million, 665 units); France ($3.3 million, 227 units); Germany ($3.1 million, 199 units) and Canada ($1.2 million, 100 units).

Imports

- Imports of machine tool parts and accessories were $45.6 million in November. The monthly average so far in 1990: $46.7 million.

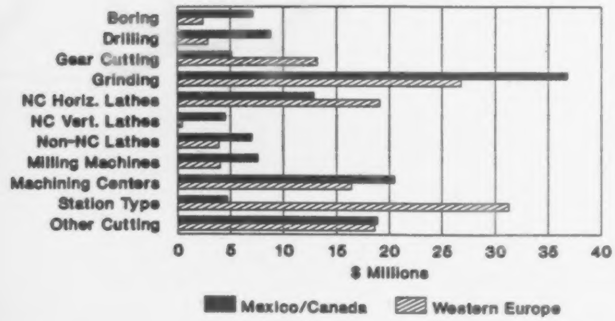
- Imports of numerical controls for controlling machine tools totalled $3.0 million in November. The monthly average for 1990 through November: $3.9 million.

- Year-to-date imports of machines using laser, light or photon beams were $42.1 million. The comparable figure for 1989: $24.5 million.

MONTHLY FOCUS

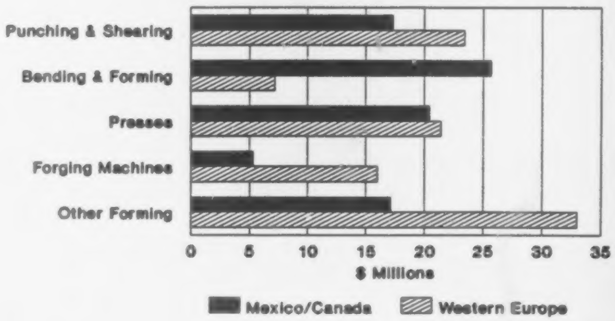
Total U.S. machine tool exports to Canada and Mexico totalled $270.6 million in 1990 through November, up 28% over the comparable 1989 figure. Also booming are exports to Western Europe, which were $269.5 million so far in 1990. Exports to every major Western European country except the United Kingdom were up at least 20% over 1989 levels. The charts below detail U.S. machine tool exports to Canada/Mexico and Western Europe by type of machine. Some of the biggest differences are in station type machines ($4.7 million to Canada/Mexico, $31.3 million to Western Europe) and bending & forming machines ($25.7 million to Canada/Mexico, $7.2 million to Western Europe).

U.S. Metal Cutting Machine Tool Exports
to Mexico/Canada and Western Europe
January-November 1990



Note: data do not include used & rebuilt machines or machines valued under $2,500.

U.S. Metal Forming Machine Tool Exports
to Mexico/Canada and Western Europe
January-November 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$ 6,824,218	$ 8,009,551	-14.80%	$107,913,036	$61,442,158	75.63%
West Germany	6,674,612	9,360,107	-28.69	50,247,307	28,410,316	76.86
Mexico	3,150,475	4,774,615	-34.02	49,776,840	57,300,616	-13.13
Korea	1,809,963	2,470,923	-26.75	43,225,546	35,176,449	22.88
U.K.	3,851,180	1,636,685	135.30	43,109,718	52,735,641	-18.25
Japan	6,389,031	3,409,493	87.39	43,056,736	28,328,184	51.99
India	388,804	2,621,956	-85.17	19,607,316	10,929,135	79.40
China	1,531,017	2,107,884	-27.37	19,191,698	25,031,676	-23.33
Belgium	739,907	672,276	10.06	18,599,198	6,848,453	171.58
Italy	1,727,507	2,159,265	-20.00	17,089,561	13,357,860	27.94
Brazil	1,719,549	2,432,266	-29.30	15,600,115	10,294,457	51.54
Australia	927,950	208,074	345.97	15,126,996	9,600,317	57.57
Taiwan	785,165	638,581	22.95	10,914,524	8,836,107	23.52
France	367,338	982,580	-62.61	8,467,086	11,047,818	-23.36
Singapore	475,378	203,753	133.31	8,139,013	7,619,910	6.81
USSR	0	1,456,509	-100.00	7,861,503	11,927,906	-34.09
Venezuela	387,275	763,086	-49.25	6,849,596	5,487,127	24.83
Netherlands	278,855	1,460,486	-80.91	5,979,357	3,869,426	54.53
Spain	151,654	357,536	-57.58	5,712,682	3,107,307	83.85
Switzerland	488,318	189,334	157.91	5,254,743	3,513,792	49.55
Malaysia	55,880	3,974	1,306.14	2,333,194	990,120	135.65
Thailand	125,312	390,111	-67.88	2,173,070	2,196,227	-1.05
Indonesia	39,890	132,432	-69.88	345,299	4,154,910	-91.69
Austria	18,204	17,856	1.95	262,817	1,253,499	-79.03

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$ 4,684,944	$ 5,993,872	-21.84%	$63,117,830	$40,131,200	57.28%
Mexico	3,698,221	4,674,003	-20.88	49,773,267	39,191,982	27.00
U.K.	3,753,115	1,712,686	119.14	35,159,161	38,701,229	-9.15
Korea	4,017,788	1,248,488	221.81	33,025,124	60,163,045	-45.11
Japan	2,385,961	1,823,012	30.88	32,612,630	42,568,303	-23.39
West Germany	3,021,986	2,901,401	4.16	25,907,698	26,327,135	-1.59
France	1,860,493	3,898,667	-52.28	18,293,258	8,243,558	121.91
Taiwan	3,187,665	2,170,263	46.88	16,851,701	18,742,213	-10.09
China	4,240,624	118,924	3,465.83	16,674,090	10,963,089	52.09
Brazil	3,262,226	475,104	586.63	9,233,701	7,802,953	18.34
Netherlands	1,393,026	651,242	113.90	8,815,926	6,381,224	38.15
Italy	374,021	583,583	-35.91	8,233,689	7,624,199	7.99
Indonesia	168,030	936,240	-82.05	6,740,737	234,046	2,780.09
India	510,118	164,688	209.75	6,567,583	8,834,119	-25.66
Australia	146,570	1,318,002	-88.88	6,178,188	6,820,770	-9.42
Spain	65,450	332,733	-80.33	5,561,011	4,051,797	37.25
Singapore	232,197	485,028	-52.13	5,555,218	7,114,233	-21.91
Malaysia	117,205	36,499	221.12	4,497,737	1,540,478	191.97
Thailand	164,449	432,521	-61.98	4,286,902	3,682,417	16.42
Belgium	22,465	37,930	-40.77	2,599,393	2,787,620	-6.75
Austria	118,758	145,196	-18.21	2,427,976	815,189	197.84
Switzerland	62,522	160,001	-60.92	2,111,059	1,398,676	50.93
Venezuela	459,249	133,293	244.54	2,010,906	8,413,479	-76.10
USSR	0	37,846	-100.00	732,665	976,510	-24.97

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Canada	$11,509,162	$14,003,423	-17.81%	$171,030,866	$101,573,358	68.38%
Mexico	6,848,696	9,448,618	-27.52	99,550,107	96,492,598	3.17
U.K.	7,604,295	3,349,371	127.04	78,268,879	91,436,870	-14.40
Korea	5,827,751	3,719,411	56.68	76,250,670	95,339,494	-20.02
West Germany	9,696,598	12,261,508	-20.92	76,155,005	54,737,451	39.13
Japan	8,774,992	5,232,505	67.70	75,669,366	70,896,487	6.73
China	5,771,641	2,226,808	159.19	35,865,788	35,994,765	-0.36
Taiwan	3,972,830	2,808,844	41.44	27,766,225	27,578,320	0.68
France	2,227,831	4,881,247	-54.36	26,760,344	19,291,376	38.72
India	898,922	2,786,644	-67.74	26,174,899	19,763,254	32.44
Italy	2,101,528	2,742,848	-23.38	25,323,250	20,982,059	20.69
Brazil	4,981,775	2,907,370	71.35	24,833,816	18,097,410	37.22
Australia	1,074,520	1,526,076	-29.59	21,305,184	16,421,087	29.74
Belgium	762,372	710,206	7.35	21,198,591	9,636,073	119.99
Netherlands	1,671,881	2,111,728	-20.83	14,795,283	10,250,650	44.34
Singapore	707,575	688,781	2.73	13,694,231	14,734,143	-7.06
Spain	217,104	690,269	-68.55	11,273,693	7,159,104	57.47
Venezuela	846,524	896,379	-5.56	8,860,502	13,900,606	-36.26
USSR	0	1,494,355	-100.00	8,594,168	12,904,416	-33.40
Switzerland	550,840	349,335	57.68	7,365,802	4,912,468	49.94
Indonesia	207,920	1,068,672	-80.54	7,086,036	4,388,956	61.45
Malaysia	173,085	40,473	327.66	6,830,931	2,530,598	169.93
Thailand	289,761	822,632	-64.78	6,459,972	5,878,644	9.89
Austria	136,962	163,052	-16.00	2,690,793	2,068,688	30.07

1990 IMPORTS

METAL CUTTING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$54,217,386	$78,925,103	-31.31%	$795,365,671	$966,401,466	-17.70%
West Germany	11,750,266	26,485,175	-55.63	287,127,630	239,362,664	19.96
Taiwan	7,982,282	13,455,165	-40.67	116,925,197	122,616,516	-4.64
U.K.	7,550,073	13,247,088	-43.01	95,747,411	72,339,132	32.36
Switzerland	8,874,600	6,689,540	32.66	84,203,115	80,381,927	4.75
Italy	1,207,665	5,472,770	-77.93	50,803,994	47,518,801	6.91
Spain	2,155,630	1,448,355	48.83	24,298,495	18,077,454	34.41
France	1,052,004	1,117,947	-5.90	22,586,057	19,941,339	13.26
Canada	1,208,212	2,209,783	-45.32	19,946,034	18,464,430	8.02
Singapore	1,416,334	1,465,875	-3.38	17,719,830	16,188,080	9.46
Korea	1,056,728	1,214,833	-13.01	17,072,503	25,513,286	-33.08
Sweden	1,688,656	2,066,473	-18.28	15,919,591	12,098,957	31.58
Brazil	339,618	1,854,603	-81.69	12,276,555	6,936,647	76.98
Belgium	11,594	32,761	-64.61	1,670,269	4,862,969	-65.65

METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$27,258,114	$18,328,796	48.72%	$190,906,550	$274,603,071	-30.48%
West Germany	10,000,155	7,744,878	29.12	72,031,864	62,050,500	16.09
Canada	8,181,981	6,467,509	26.51	62,684,233	45,878,231	36.63
Italy	3,035,179	663,747	357.28	35,639,709	25,849,023	37.88
Sweden	1,928,016	6,171,465	-68.76	31,490,816	9,497,871	231.56
Switzerland	2,362,402	2,608,965	-9.45	23,123,377	16,273,581	42.09
Belgium	499,046	1,643,832	-69.64	20,015,013	20,057,143	-0.21
U.K.	1,721,034	1,546,029	11.32	14,432,693	14,044,792	2.76
Taiwan	237,720	332,877	-28.59	8,406,192	8,223,680	2.22
Spain	452,025	258,240	75.04	3,981,175	2,768,905	43.78
France	144,674	131,974	9.62	3,383,738	1,550,787	118.19
Korea	122,809	0	NA	638,547	393,988	62.07
Brazil	0	0	NA	202,406	4,520,020	-95.52
Singapore	42,065	0	NA	174,645	862,449	-79.75

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	NOVEMBER	OCTOBER	%CHANGE	NOV YTD'90	NOV YTD'89	%CHANGE
Japan	$81,475,500	$97,253,899	-16.22%	$986,272,221	$1,241,004,537	-20.53%
West Germany	21,750,421	34,230,053	-36.46	359,159,494	301,413,164	19.16
Taiwan	8,220,002	13,788,042	-40.38	125,331,389	130,840,196	-4.21
U.K.	9,271,107	14,793,117	-37.33	110,180,104	86,383,924	27.55
Switzerland	11,237,002	9,298,505	20.85	107,326,492	96,655,508	11.04
Italy	4,242,844	6,136,517	-30.86	86,443,703	73,367,824	17.82
Canada	9,390,193	8,677,292	8.22	82,630,267	64,342,661	28.42
Sweden	3,616,672	8,237,938	-56.10	47,410,407	21,596,828	119.52
Spain	2,607,655	1,706,595	52.80	28,279,670	20,846,359	35.66
France	1,196,678	1,249,921	-4.26	25,969,795	21,492,126	20.83
Belgium	510,640	1,676,593	-69.54	21,685,282	24,920,112	-12.98
Singapore	1,458,399	1,465,875	-0.51	17,894,475	17,050,529	4.95
Korea	1,179,537	1,214,833	-2.91	17,711,050	25,907,274	-31.64
Brazil	339,618	1,854,603	-81.69	12,478,961	11,456,667	8.92

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		NOVEMBER 1990		NOV'90 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	6,399	11,915,072	4,220	9,811,078	55,920	144,319,673
Boring Machines	13	892,848	12	613,537	5	453,080	147	15,436,939
Drilling Machines	72	2,247,262	60	937,232	59	1,220,482	930	17,068,157
Gear Cutting Machines	16	8,205,773	33	4,217,786	24	4,326,960	232	52,445,405
Grinding Machines	412	8,753,533	346	10,933,219	399	10,473,970	3,635	119,512,128
Horizontal Lathes NC	29	3,059,742	25	2,408,221	26	2,776,395	380	40,446,976
Vertical Lathes NC	5	2,322,630	9	1,621,356	2	287,836	64	12,052,640
Lathes Non-NC	51	1,033,985	61	1,218,831	70	1,500,069	701	15,662,718
Milling Machines	38	5,262,002	51	2,190,381	21	1,976,806	406	34,008,916
Machining Centers	13	2,443,148	52	4,679,669	25	3,961,612	367	53,245,250
Station Type Machines	5	5,650,047	8	8,910,384	7	5,952,523	71	41,579,853
Other Metal Cutting	288	5,325,005	490	7,249,997	395	6,820,575	3,793	71,793,150
Punching & Shearing Machines	56	3,258,296	111	4,695,896	167	6,683,192	1,390	60,118,862
Bending & Forming Machines	165	8,316,381	139	6,554,180	139	6,281,392	1,682	65,400,029
Presses	126	5,543,751	89	4,543,803	113	11,284,355	1,900	90,020,233
Forging Machines	12	2,088,733	30	3,804,635	18	3,400,845	335	44,177,705
Other Metal Forming	168	8,580,087	241	8,430,558	232	9,985,194	2,812	92,927,762
TOTAL	6,687	86,524,911	8,156	84,924,757	5,922	87,196,364	74,765	970,216,396

PRODUCT TYPES	NOVEMBER 1989		NOV'89 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	3,643	9,099,729	52,744	128,256,326
Boring Machines	28	1,311,525	243	14,326,773
Drilling Machines	64	608,955	691	16,198,469
Gear Cutting Machines	48	4,982,715	256	38,341,843
Grinding Machines	242	5,773,319	3,575	116,190,311
Horizontal Lathes NC	20	2,041,092	232	25,422,222
Vertical Lathes NC	1	155,000	18	2,549,324
Lathes Non-NC	45	648,656	471	12,027,587
Milling Machines	11	334,380	499	26,407,563
Machining Centers	36	5,134,324	343	41,994,963
Station Type Machines	3	2,739,207	53	26,695,618
Other Metal Cutting	178	3,016,142	2,218	52,807,531
Punching & Shearing Machines	141	3,752,463	1,139	52,276,413
Bending & Forming Machines	80	2,322,597	953	44,371,130
Presses	158	7,063,268	1,438	75,565,698
Forging Machines	110	6,521,456	765	37,681,631
Other Metal Forming	238	12,843,187	3,593	144,206,351
TOTAL	5,046	68,348,015	69,231	855,319,753

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE OCT 90' – NOV 90'		% CHANGE NOV 89' – NOV 90'		% CHANGE YTD 89' – YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-34.05	-17.66	15.84	7.82	6.02	12.52
Boring Machines	-58.33	-26.15	-82.14	-65.45	-39.51	7.75
Drilling Machines	-1.67	30.22	-7.81	100.42	34.59	5.37
Gear Cutting Machines	-27.27	2.59	-50.00	-13.16	-9.38	36.78
Grinding Machines	15.32	-4.20	64.88	81.42	1.68	2.86
Horizontal Lathes NC	4.00	15.29	30.00	36.02	63.79	59.10
Vertical Lathes NC	-77.78	-82.25	100.00	85.70	255.56	372.78
Lathes Non-NC	14.75	23.07	55.56	131.26	48.83	30.22
Milling Machines	-58.82	-9.75	90.91	491.19	-18.64	28.78
Machining Centers	-51.92	-15.34	-30.56	-22.84	7.00	26.79
Station Type Machines	-12.50	-33.20	133.33	117.31	33.96	55.76
Other Metal Cutting	-19.39	-5.92	121.91	126.14	71.01	35.95
Punching & Shearing Machines	50.45	42.32	18.44	78.10	22.04	15.00
Bending & Forming Machines	0.00	-4.16	73.75	170.45	76.50	47.39
Presses	26.97	148.35	-28.48	59.76	32.13	19.13
Forging Machines	-40.00	-10.61	-83.64	-47.85	-56.21	17.24
Other Metal Forming	-3.73	18.44	-2.52	-22.25	-21.74	-35.56
TOTAL	-27.39	2.67	17.36	27.58	7.99	13.43

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		NOVEMBER 1990		NOV'90 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	123,375	18,144,453	81,074	10,309,845	890,606	141,957,287
Boring Machines	52	3,494,230	67	6,367,793	80	2,589,433	608	40,357,192
Drilling Machines	49	2,266,373	133	5,115,447	83	2,416,938	1,327	42,097,887
Gear Cutting Machines	69	4,625,890	24	9,163,879	40	3,791,633	473	50,181,916
Grinding Machines	616	25,521,740	728	22,115,629	553	16,903,675	7,823	265,761,102
Horizontal Lathes NC	194	20,111,149	236	24,077,544	126	12,878,638	2,827	276,543,593
Vertical Lathes NC	4	689,943	10	3,183,656	20	4,701,725	171	27,468,084
Lathes Non-NC	500	7,286,875	883	10,701,325	671	7,463,658	7,664	106,529,324
Milling Machines	363	7,383,527	368	6,724,436	432	6,210,377	4,955	78,414,144
Machining Centers	147	27,592,987	256	30,295,646	168	23,710,026	2,807	370,390,364
Station Type Machines	14	14,932,439	13	10,334,968	10	3,075,052	161	8[illegible],452,997
Other Metal Cutting	233	14,697,321	301	20,848,312	418	15,404,784	4,443	179,850,623
Punching & Shearing Machines	103	4,806,367	96	7,464,655	148	10,520,914	1,562	73,258,093
Bending & Forming Machines	161	5,831,579	140	9,706,668	167	8,328,936	2,034	87,356,634
Presses	416	10,399,978	225	5,254,258	103	18,034,029	3,356	104,986,851
Forging Machines	144	8,927,234	57	3,756,734	68	3,402,818	908	57,285,295
Other Metal Forming	204	10,822,213	259	16,246,525	214	15,792,641	2,534	134,088,174
TOTAL	81,753	180,539,323	127,171	209,501,928	84,375	165,535,122	934,259	2,116,979,560

PRODUCT TYPES	NOVEMBER 1989		NOV'89 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	67,828	11,942,281	690,541	148,780,593
Boring Machines	101	4,368,275	794	54,719,165
Drilling Machines	93	1,089,244	1,680	67,439,253
Gear Cutting Machines	54	4,985,161	659	39,547,032
Grinding Machines	638	14,980,807	7,391	252,930,857
Horizontal Lathes NC	294	26,258,734	3,854	350,547,258
Vertical Lathes NC	9	1,373,663	136	21,547,107
Lathes Non-NC	525	9,281,310	5,072	82,731,918
Milling Machines	615	7,793,252	5,704	106,645,387
Machining Centers	320	32,523,653	3,485	377,469,584
Station Type Machines	10	897,140	182	52,711,682
Other Metal Cutting	419	15,050,241	4,558	170,716,184
Punching & Shearing Machines	113	6,516,958	1,636	70,494,882
Bending & Forming Machines	183	8,839,591	2,366	86,095,854
Presses	118	6,992,355	1,718	136,036,679
Forging Machines	52	8,160,742	1,461	81,281,676
Other Metal Forming	354	9,939,309	5,594	107,911,018
TOTAL	71,726	170,992,716	736,831	2,207,606,129

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE OCT'90 - NOV'90		% CHANGE NOV'89 - NOV'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-34.29	-43.18	19.53	-13.67	28.97	-4.59
Boring Machines	19.40	-59.34	-20.79	-40.72	-23.43	-26.25
Drilling Machines	-37.59	-52.75	-10.75	121.89	-21.01	-37.58
Gear Cutting Machines	66.67	-58.62	-25.93	-23.94	-28.22	26.89
Grinding Machines	-24.04	-23.57	-13.32	12.84	5.84	5.07
Horizontal Lathes NC	-46.61	-46.51	-57.14	-50.95	-26.65	-21.11
Vertical Lathes NC	100.00	47.68	122.22	242.28	25.74	27.48
Lathes Non-NC	-24.01	-30.25	27.81	-19.58	51.10	28.76
Milling Machines	17.39	-7.64	-29.76	-20.31	-13.13	-26.47
Machining Centers	-34.38	-21.74	-47.50	-27.10	-19.45	-1.88
Station Type Machines	-23.08	-70.25	0.00	242.76	-11.54	52.63
Other Metal Cutting	38.87	-26.11	-0.24	2.36	-2.52	5.35
Punching & Shearing Machines	54.17	40.94	30.97	61.44	-4.52	3.92
Bending & Forming Machines	19.29	-14.19	-8.74	-5.78	-14.03	1.46
Presses	-54.22	243.23	-12.71	157.91	95.34	-22.82
Forging Machines	19.30	-9.42	30.77	-58.30	-37.85	-29.52
Other Metal Forming	-17.37	-2.79	-39.55	58.89	-54.70	24.26
TOTAL	-33.65	-20.99	17.64	-3.19	26.79	-4.11

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

RELEASED: January 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	76	6287	16	1061
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	74	13245	8	1412
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543	1	296
100035	Horiz. mach. ctrs., ATC	47	12686	3	846
100045	Mach. ctrs., n.e.c.	227	22771	13	1408
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	15	25916	3	3516
300090	Multi-station transfer machines, non-NC	24	5959	1	556
8458110010	Horiz. lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	274	21052	18	1621
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	60	8171	7	1053
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	21	5343	1	102
190030	Horiz. engine or toolroom lathes, non-NC	108	1868	16	107
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	519	7	209
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	55	2855	9	518
190090	Horiz. lathes, n.e.c., non-NC	406	5183	25	263
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	5	793	2	288
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	40	8658	0	0
991050	Vertical turret lathes, non-NC	37	810	3	50
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	76	4428	10	353
8459100000	Way-type unit head machines	23	6006	3	1880
210080	Other drilling machines, NC	91	8447	6	683
290040	Drilling machines, multiple spindle, non-NC	33	1704	1	165
290050	Drilling machines, radial, non-NC	21	209	1	10
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	100	2057	16	95
290090	Drilling machines, n.e.c., non-NC	685	4651	35	267
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	19	1122	1	130
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	26	898	1	4
400040	Boring machines, vertical, NC	8	2483	1	249
400050	Boring machines, vertical, non-NC	41	1393	1	47
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	30	1463	1	23
510080	Milling machines, knee type, NC	21	2200	0	0
590030	Milling machines, knee type, non-NC	112	4077	5	95
610080	Milling machines, excl. knee type, n.e.c., NC	58	20630	6	1767
690050	Milling machines, profile, dup., or die sinking, non-NC	23	533	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	190	6280	10	115
700020	Threading or tapping machines, n.e.c., NC	37	1496	4	104
700080	Threading or tapping machines, n.e.c., non-NC	701	6075	133	1125
8460110080	Flat surface grinding mach., NC	80	8576	7	331
190010	Flat surface grinding mach., recip.-table type, non-NC	54	946	2	52
190050	Flat surface grinding mach., n.e.c., non-NC	32	6813	4	763
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	101	28830	18	3890
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	51	6148	5	348
290030	Grinding mach., internal cylindrical, non-NC	46	3323	6	341
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	357	14411	15	443
310080	Sharpening machines (tool & cutter grinding), NC	48	4212	8	263
390050	Sharpening machines (tool & cutter grinding), non-NC	979	13783	96	711
400060	Honing or lapping machines, NC	3	618	0	0
400080	Honing or lapping machines, non-NC	792	13396	123	1302
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	1027	1	18
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1083	17429	114	2011
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	269	7203	33	456
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	2	9
300060	Broaching machines, NC	13	1600	1	29
300080	Broaching machines, non-NC	26	1412	0	0
401050	Gear hobbers	36	4928	3	1122
401070	Gear shapers	47	6601	11	868
401090	Gear cutting machines, n.e.c.	87	36405	5	1899
405060	Gear grinding or finishing machines	62	4511	5	438
500050	Sawing or cutting-off machines, NC	113	4176	6	202
500090	Sawing or cutting-off machines, non-NC	1349	17721	119	1382
9000000001	Metal cutting machine tools, n.e.c.	1156	23504	81	2452
9800000001	Used or rebuilt machine tools	4719	55683	398	3523
9900000001	Machine tools valued at less than $2,500	35267	21783	2492	1591
	Cutting Total			3923	44864
	Y-T-D Cutting Total	50712	550718		
	NC Y-T-D Cutting Total*	1677	236825		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

RELEASED: January 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	76	6287	16	1061
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	74	13245	8	1412
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543	1	296
100035	Horiz. mach. ctrs., ATC	47	12686	3	846
100045	Mach. ctrs., n.e.c.	227	22771	13	1408
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	15	25916	3	3516
300090	Multi-station transfer machines, non-NC	24	5959	1	556
8458110010	Horiz. lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	274	21052	18	1621
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	60	8171	7	1053
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	21	5343	1	102
190030	Horiz. engine or toolroom lathes, non-NC	108	1868	16	107
190050	Automatic bar and/or chucking mach., single spindle, non-NC	19	519	7	209
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	55	2855	9	518
190090	Horiz. lathes, n.e.c., non-NC	406	5183	25	263
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	5	793	2	288
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	40	8658	0	0
991050	Vertical turret lathes, non-NC	37	810	3	50
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	76	4428	10	353
8459100000	Way-type unit head machines	23	6006	3	1880
210080	Other drilling machines, NC	91	8447	6	683
290040	Drilling machines, multiple spindle, non-NC	33	1704	1	165
290050	Drilling machines, radial, non-NC	21	209	1	10
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	100	2057	16	95
290090	Drilling machines, n.e.c., non-NC	685	4651	35	267
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	19	1122	1	130
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	26	898	1	4
400040	Boring machines, vertical, NC	8	2483	1	249
400050	Boring machines, vertical, non-NC	41	1393	1	47
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	30	1463	1	23
510080	Milling machines, knee type, NC	21	2200	0	0
590030	Milling machines, knee type, non-NC	112	4077	5	95
610080	Milling machines, excl. knee type, n.e.c., NC	58	20630	6	1767
690050	Milling machines, profile, dup., or die sinking, non-NC	23	533	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	190	6280	10	115
700020	Threading or tapping machines, n.e.c., NC	37	1496	4	104
700080	Threading or tapping machines, n.e.c., non-NC	701	6075	133	1125
8460110080	Flat surface grinding mach., NC	80	8576	7	331
190010	Flat surface grinding mach., recip.-table type, non-NC	54	946	2	52
190050	Flat surface grinding mach., n.e.c., non-NC	32	6813	4	763
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	101	28830	18	3890
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	51	6148	5	348
290030	Grinding mach., internal cylindrical, non-NC	46	3323	6	341
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	357	14411	15	443
310080	Sharpening machines (tool & cutter grinding), NC	48	4212	8	263
390050	Sharpening machines (tool & cutter grinding), non-NC	979	13783	96	711
400060	Honing or lapping machines, NC	3	618	0	0
400080	Honing or lapping machines, non-NC	792	13396	123	1302
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	1027	1	18
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1083	17429	114	2011
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	269	7203	33	456
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	2	9
300060	Broaching machines, NC	13	1600	1	29
300080	Broaching machines, non-NC	26	1412	0	0
401050	Gear hobbers	36	4928	3	1122
401070	Gear shapers	47	6601	11	868
401090	Gear cutting machines, n.e.c.	87	36405	5	1899
405060	Gear grinding or finishing machines	62	4511	5	438
500050	Sawing or cutting-off machines, NC	113	4176	6	202
500090	Sawing or cutting-off machines, non-NC	1349	17721	119	1382
9000000001	Metal cutting machine tools, n.e.c.	1156	23504	81	2452
9800000001	Used or rebuilt machine tools	4719	55683	398	3523
9900000001	Machine tools valued at less than $2,500	35267	21783	2492	1591
	Cutting Total			3923	44864
	Y-T-D Cutting Total	50712	550718		
	NC Y-T-D Cutting Total*	1677	236825		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	1	296
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	2	710
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	180
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	1240	0	0	0	0	0	0	0	0
290010	0	0	1	36	0	0	0	0	0	0
290030	0	0	4	180	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	6	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	10	0	0	1	14	44	462
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	34	367	0	0	3	28
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	8	24	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	2	291	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	13	0	0	0	0	1	24
9000000001	0	0	5	59	0	0	0	0	0	0
9800000001	0	0	21	35	0	0	1	26	1	6
9900000001	0	0	5	3	19	22	0	0	28	22
Month Tot	4	1531	47	367	53	389	2	40	81	1728
Y-T-D Tot	241	19192	1107	8467	781	19607	184	345	1638	17090
NC YTD Tot*	64	12110	53	3716	30	9703	0	0	54	5674

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	270	0	0	0	0	0	0	0	0
100045	0	0	1	72	0	0	6	485	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	556	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	141	0	0	0	0	1	144	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	12	47	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	174	0	0	0	0	0	0	0	0
190090	0	0	1	29	0	0	7	63	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	32	0	0
995090	0	0	0	0	0	0	3	79	0	0
8459100000	0	0	0	0	0	0	1	140	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	22	200	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	130	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	4	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	27	0	0	2	34	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	54	0	0	0	0	6	31	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	50	0	0	0	0	13	88	0	0
8460110080	0	0	0	0	0	0	2	190	2	55
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	10	1195	0	0	0	0	1	224	0	0
290010	2	177	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	4	141	0	0	0	0	5	120	0	0
310080	0	0	0	0	0	0	2	48	0	0
390050	30	274	2	14	0	0	4	17	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	70	732	0	0	0	0	0	0
900060	0	0	1	18	0	0	0	0	0	0
900080	12	133	3	26	0	0	6	167	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	3	4	88	0	0	3	11	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	1	370	7	366	0	0	0	0	0	0
401090	3	1744	2	156	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	14	191	10	184	0	0	13	117	19	131
9000000001	10	752	0	0	0	0	4	21	0	0
9800000001	11	108	8	66	0	0	177	521	10	83
9900000001	22	29	88	59	14	21	917	269	15	9
Month Tot	132	6389	197	1810	16	56	1210	3150	46	279
Y-T-D Tot	4079	43057	2234	43226	403	2333	9892	49777	534	5979
NC YTD Tot*	139	14521	61	12600	2	131	180	13930	11	915

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - November 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	46	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	159	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	7
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	2	26
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	1	43	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	249	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	1	118	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	8	50	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	16	0	0	1	22	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	13	4	42	4	18	1	11
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	31
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	3	148	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	3	40	0	0	0	0	1	20	0	0
9000000001	10	146	0	0	0	0	1	59	0	0
9800000001	4	96	0	0	1	3	1	399	2	5
9900000001	146	55	9	5	42	46	80	108	29	44
Month Tot	173	475	12	152	51	488	89	785	36	125
Y-T-D Tot	1699	8139	672	5713	998	5255	834	10915	419	2173
NC YTD Tot*	19	2489	43	1637	5	1431	25	5599	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	2	93	0	0	0	0	10	668	0	0
8457100015	0	0	0	0	0	0	1	174	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	138
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	3	3516	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	11	787	0	0	0	0	1	63	0	0
110050	3	207	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	4	60	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	1	22	0	0	0	0	1	84	1	62
190090	3	12	0	0	0	0	0	0	6	62
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	108
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	17
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	2	1740
210080	0	0	0	0	0	0	5	553	1	130
290040	0	0	0	0	0	0	1	165	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	23
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	1	249	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	2	34
610080	1	1178	0	0	0	0	0	0	5	589
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	2	180	0	0	3	328	1	113	15	108
8460110080	0	0	0	0	0	0	0	0	2	56
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	170	2	405
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	43	0	0
290050	0	0	0	0	0	0	3	111	0	0
310080	0	0	0	0	0	0	0	0	6	215
390050	0	0	0	0	0	0	10	60	2	10
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	12	0	0	2	23
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	16	3	273	8	144
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	3	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	1	6	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	2	576	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	41	2	91
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	15	119	0	0	0	0	18	290	12	164
9000000001	0	0	0	0	0	0	9	75	22	1173
9800000001	8	306	0	0	0	0	26	160	36	264
9900000001	71	57	0	0	52	31	218	113	395	402
Month Tot	125	3851	0	0	58	387	314	6675	525	5957
Y-T-D Tot	3898	43110	38	7862	992	6850	2927	50247	7848	43881
NC YTD Tot*	205	27698	0	0	13	1144	70	21805	137	13974

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 90

RELEASED: January 30, 1991

	Metal Forming Machine Tools	TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	314	8225	33	370
8462100030	Headers and upsetters, including cold headers	53	18524	4	1967
100050	Forging or die stamping machines, and hammers, n.e.c.	282	25654	14	1434
210080	Bending, folding, straight. or flat. mach., incl presses, NC	322	30749	41	4205
290030	Press brakes, non-NC	148	3634	13	509
290040	Bending rolls, non-NC	75	2434	8	310
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1137	28584	77	1258
310080	Shearing machines, NC	84	7341	13	1031
390050	Shearing machines, non-NC	372	9177	87	1438
410080	Punching or notching mach., incl. comb. punch & shear, NC	159	23580	16	2889
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	775	20021	51	1325
910060	Hydraulic presses, NC	79	4820	6	142
910090	Hydraulic presses, non-NC	551	25654	38	4632
990030	Presses, n.e.c., NC	140	11651	9	503
990040	Presses, mechanical, non-NC	100	11199	9	1781
990060	Presses, n.e.c., non-NC	1030	36695	51	4226
8463100080	Draw benches for bars, tubes, profiles, wire or the like	215	6351	26	1413
200080	Thread rolling machines	54	2539	5	360
300080	Machines for working wire	681	20934	45	1248
900080	Metal forming machine tools, n.e.c.	1548	54878	123	6593
9800000002	Used or rebuilt machine tools	3064	56822	237	3784
9900000002	Machine tools valued at less than $2,500	12870	10032	1093	913
	Forming Total			1999	42332
	Y-T-D Forming Total	24053	419499		
	NC Y-T-D Forming Total	784	78142		
	Cutting and Forming Totals:				
	Monthly Total			5922	87196
	Y-T-D Total	74765	970216		
	NC Y-T-D Total*	2461	314968		

	Other Manufacturing Technology	TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	663803	0	67503
2000000000	Parts for working rubber or plastics - heading 8477	0	259769	0	23692
2710003070	Quenching or cutting oils	0	18118	0	439
8428900010	Industrial robots for lifting, handling, loading or unload	318	6427	21	355
8431390090	Parts industrial robots, handling and loading - heading 8428	0	69442	0	5553
8456100000	Laser, light or photon beam for working any material	861	42990	65	2467
200000	Ultrasonic process for working any material	72	1828	1	32
8477106010	Injection molding mach., for rubber or oth. thermosetting	274	19026	17	1031
106070	Injection molding mach., for thermoplastics	386	46892	24	3599
200010	Extruders for rubber or other thermosetting materials	329	15339	18	1657
200050	Extruders for processing thermoplastics	793	39663	76	2440
300000	Blow molding machines	508	39547	18	2520
400000	Vacuum-molding and other thermoforming machines	4643	13233	66	1310
510010	Machines for molding or retreading pneumatic tires	1445	19467	56	2242
510090	Machines for molding or otherwise forming inner tubes	390	28400	24	199
590000	Machines for molding or otherwise forming n.e.c.	1318	21922	108	1769
800000	Machines for working rubber or plastics n.e.c.	5021	101909	269	9492
8479899040	Industrial robots, n.e.c.	5318	51697	236	4354
908040	Industrial robot parts	0	25864	0	1538
8537100030	Numerical controls for controlling machine tools	1831	27225	103	1419
9024100000	Machines and appliances for testing metals	0	69589	0	6307
9031100000	Machines for balancing mechanical parts	0	26369	0	1473
300000	Profile projectors	0	6684	0	618
9032810040	Industrial process control instr., hydraulic or pneumatic	744880	55790	151257	11221

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	8	0	0	0	0	1	4	0	0
8462100030	0	0	0	0	0	0	2	675	0	0
100050	0	0	0	0	0	0	0	0	6	635
210080	0	0	0	0	0	0	1	270	5	559
290030	0	0	0	0	0	0	6	244	4	158
290040	0	0	0	0	0	0	0	0	5	225
290050	5	98	0	0	0	0	0	0	30	290
310080	0	0	0	0	0	0	0	0	1	108
390050	0	0	0	0	0	0	26	437	10	354
410080	0	0	0	0	0	0	0	0	2	285
490050	0	0	0	0	0	0	2	30	14	147
910060	0	0	0	0	0	0	0	0	1	50
910090	0	0	3	100	0	0	1	136	1	31
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	4	185	0	0
990060	1	16	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	2	787
200080	0	0	0	0	0	0	0	0	0	0
300080	1	15	1	19	0	0	0	0	10	246
900080	0	0	0	0	0	0	1	1200	17	147
9800000002	0	0	0	0	0	0	4	73	46	485
9900000002	12	10	0	0	20	22	12	9	178	177
Month Tot	20	147	4	119	20	22	60	3262	332	4685
Y-T-D Tot	460	6178	69	2428	579	2599	614	9234	3945	63118
NC YTD Tot	28	1979	0	0	0	0	10	804	160	20271
C&F Month	128	1075	15	137	145	762	147	4982	753	11509
C&F Y-T-D	2120	21305	224	2691	1284	21199	1306	24834	9827	171031
C&F NC YTD*	46	9117	1	23	146	16028	44	5626	521	79690

Other Manufacturing Technology

1000000000	0	576	0	89	0	423	0	1155	0	14068
2000000000	0	147	0	49	0	927	0	386	0	7622
2710003070	0	29	0	0	0	9	0	0	0	69
8428900010	1	5	0	0	1	149	0	0	0	0
8431390090	0	178	0	3	0	10	0	19	0	1318
8456100000	0	0	0	0	2	52	0	0	6	551
200000	0	0	0	0	0	0	0	0	1	32
8477106010	0	0	0	0	0	0	0	0	0	0
106070	1	40	0	0	0	0	0	0	11	2293
200010	0	0	0	0	0	0	0	0	11	1096
200050	20	494	0	0	2	244	2	50	15	381
300000	0	0	0	0	0	0	0	0	4	597
400000	0	0	0	0	0	0	0	0	4	527
510010	0	0	0	0	0	0	0	0	0	0
510090	1	8	0	0	0	0	0	0	0	0
590000	0	0	0	0	4	63	0	0	3	106
800000	2	28	0	0	0	0	2	22	109	2985
8479899040	0	0	0	0	0	0	0	0	141	2507
908040	0	7	0	0	0	0	0	0	0	889
8537100030	0	0	0	0	0	0	0	0	8	89
9024100000	0	37	0	28	0	46	0	51	0	394
9031100000	0	39	0	0	0	96	0	19	0	416
300000	0	0	0	0	0	0	0	0	0	42
9032810040	571	61	507	79	3547	177	26	5	2245	194

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	10	2	16	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	200	0	0	0	0
210080	10	2215	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	6	38	1	8	6	161	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	5	395	1	73	0	0	0	0
910060	4	49	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	1	91	0	0	0	0	0	0
990040	2	1200	0	0	0	0	0	0	0	0
990060	13	770	1	562	1	19	0	0	0	0
8463100080	0	0	0	0	2	33	0	0	0	0
200080	0	0	1	44	0	0	0	0	0	0
300080	0	0	1	7	0	0	0	0	7	123
900080	0	0	1	600	6	161	0	0	2	50
9800000002	0	0	7	75	0	0	0	0	9	201
9900000002	8	6	44	38	0	0	8	7	0	0
Month Tot	37	4241	68	1860	14	510	14	168	18	374
Y-T-D Tot	412	16674	618	18293	411	6568	258	6741	313	8234
NC YTD Tot	21	4945	46	4541	0	0	4	701	11	1432
C&F Month	41	5772	115	2228	67	899	16	208	99	2102
C&F Y-T-D	653	35866	1725	26760	1192	26175	442	7086	1951	25323
C&F NC YTD*	85	17054	99	8257	30	9703	4	701	65	7106

Other Manufacturing Technology

1000000000	0	500	0	1532	0	660	0	118	0	750
2000000000	0	22	0	258	0	374	0	66	0	253
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	164	0	28	0	50	0	0
8456100000	0	0	2	36	1	12	0	0	1	17
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	2	145
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	15	379	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	4	28	0	0	0	0	0	0	9	10
510010	0	0	0	0	3	420	0	0	3	25
510090	0	0	4	94	0	0	0	0	0	0
590000	0	0	13	229	8	66	0	0	0	0
800000	1	89	2	1305	3	1379	4	63	3	30
8479899040	0	0	0	0	0	0	0	0	2	634
908040	0	0	0	42	0	0	0	0	0	77
8537100030	0	0	8	117	0	0	0	0	7	85
9024100000	0	1386	0	36	0	6	0	35	0	108
9031100000	0	0	0	0	0	61	0	0	0	0
300000	0	0	0	68	0	0	0	0	0	0
9032810040	124	14	5694	294	146	51	0	0	1152	237

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	3	40	5	52
8462100030	1	564	0	0	0	0	0	0	0	0
100050	0	0	2	359	1	49	2	96	0	0
210080	0	0	0	0	2	68	4	175	0	0
290030	0	0	0	0	0	0	0	0	1	7
290040	0	0	0	0	0	0	1	30	0	0
290050	3	66	1	190	0	0	7	93	0	0
310080	3	186	0	0	0	0	4	203	3	154
390050	20	323	0	0	0	0	5	150	1	49
410080	0	0	0	0	0	0	0	0	5	853
490050	1	27	1	9	0	0	5	102	0	0
910060	0	0	0	0	0	0	1	43	0	0
910090	0	0	0	0	0	0	11	802	0	0
990030	0	0	0	0	0	0	7	140	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	17	981	2	997	0	0	9	61	0	0
8463100080	8	51	0	0	0	0	3	89	0	0
200080	0	0	0	0	0	0	1	12	0	0
300080	3	52	7	319	0	0	2	30	0	0
900080	3	63	22	1785	0	0	6	84	13	262
9800000002	1	7	18	356	0	0	108	1417	0	0
9900000002	124	65	4	3	0	0	150	131	47	16
Month Tot	184	2386	57	4018	3	117	329	3698	75	1393
Y-T-D Tot	1746	32613	698	33025	104	4498	5241	49773	396	8816
NC YTD Tot	33	3587	50	4118	18	989	111	6134	55	5259
C&F Month	316	8775	254	5828	19	173	1539	6849	121	1672
C&F Y-T-D	5825	75669	2932	76251	507	6831	15133	99550	930	14795
C&F NC YTD*	172	18108	111	16718	20	1120	291	20064	66	6173

Other Manufacturing Technology

1000000000	0	5741	0	13714	0	320	0	3461	0	1022
2000000000	0	552	0	2993	0	215	0	1719	0	222
2710003070	0	54	0	11	0	0	0	26	0	34
8428900010	7	92	0	0	0	0	0	0	0	0
8431390090	0	355	0	80	0	0	0	466	0	155
8456100000	34	909	0	0	2	51	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	693	3	200
106070	1	147	0	0	0	0	3	495	0	0
200010	0	0	0	0	0	0	6	362	0	0
200050	0	0	0	0	1	46	15	424	1	130
300000	0	0	0	0	0	0	1	28	0	0
400000	23	4	2	54	0	0	21	599	0	0
510010	0	0	0	0	0	0	9	159	5	45
510090	0	0	0	0	0	0	0	0	0	0
590000	6	186	1	9	0	0	7	41	1	8
800000	2	68	14	258	1	18	49	1006	0	0
8479899040	33	640	1	5	0	0	2	10	0	0
908040	0	84	0	3	0	0	0	0	0	21
8537100030	5	68	6	88	0	0	4	47	0	0
9024100000	0	1040	0	317	0	3	0	116	0	65
9031100000	0	0	0	415	0	0	0	91	0	0
300000	0	0	0	50	0	0	0	0	0	0
9032810040	257	2609	1150	76	0	0	234	172	5496	275

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	65	0	0
290030	0	0	0	0	0	0	2	100	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	23	1	12	2	25	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	3	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	82	0	0
490050	9	50	0	0	0	0	0	0	5	38
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	3	2859	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	61	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	35	0	0	0	0	1	52
900080	2	55	1	18	0	0	0	0	0	0
9800000002	3	50	0	0	0	0	2	17	4	66
9900000002	55	51	0	0	43	37	6	5	12	8
Month Tot	72	232	3	65	45	63	17	3188	22	164
Y-T-D Tot	512	5555	152	5561	351	2111	413	16852	210	4287
NC YTD Tot	7	746	25	499	2	65	29	1869	4	155
C&F Month	245	708	15	217	96	551	106	3973	58	290
C&F Y-T-D	2411	13694	824	11274	1349	7366	1247	27766	629	6460
C&F NC YTD*	26	3235	68	2136	7	1496	54	7468	10	474

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1215	0	278	0	912	0	459	0	458
2000000000	0	242	0	815	0	139	0	551	0	148
2710003070	0	0	0	0	0	0	0	66	0	24
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	295	0	4	0	0	0	24	0	0
8456100000	0	0	0	0	0	0	2	256	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	10	180	0	0	0	0	1	380
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	4	22
800000	8	40	3	51	0	0	3	5	0	0
8479899040	0	0	0	0	1	4	0	0	0	0
908040	0	20	0	6	0	28	0	0	0	0
100030	8	117	0	0	1	8	1	10	0	0
9024100000	0	46	0	95	0	29	0	121	0	4
9031100000	0	62	0	28	0	0	0	0	0	0
300000	0	7	0	0	0	42	0	34	0	0
9032810040	1761	127	366	22	95	16	792	59	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	3	0	0	0	0	1	13	18	224
8462100030	0	0	0	0	0	0	1	728	0	0
100050	1	59	0	0	0	0	0	0	1	36
210080	2	173	0	0	0	0	0	0	15	680
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	55
290050	2	42	0	0	0	0	2	53	9	159
310080	0	0	0	0	2	380	0	0	0	0
390050	2	28	0	0	0	0	0	0	22	94
410080	8	1670	0	0	0	0	0	0	0	0
490050	1	9	0	0	0	0	4	140	3	305
910060	0	0	0	0	0	0	0	0	0	0
910090	1	105	0	0	2	48	2	55	14	496
990030	0	0	0	0	0	0	0	0	1	272
990040	0	0	0	0	0	0	1	10	1	325
990060	0	0	0	0	0	0	4	769	3	51
8463100080	2	15	0	0	0	0	6	89	3	348
200080	0	0	0	0	0	0	0	0	3	304
300080	6	250	0	0	0	0	1	22	4	78
900080	3	1000	0	0	0	0	41	1040	5	129
9800000002	5	320	0	0	2	24	3	57	25	636
9900000002	81	80	0	0	11	7	52	47	226	193
Month Tot	115	3753	0	0	17	459	118	3022	355	4385
Y-T-D Tot	1926	35159	22	733	305	2011	1391	25908	2907	52531
NC YTD Tot	62	6535	1	136	5	459	14	1699	88	11220
C&F Month	240	7604	0	0	75	847	432	9697	880	10342
C&F Y-T-D	5824	78269	60	8594	1297	8861	4318	76155	10755	96412
C&F NC YTD*	267	34233	1	136	18	1603	84	23504	225	25194

Other Manufacturing Technology

	U.K. Units	U.K. $000	USSR Units	USSR $000	Venezuela Units	Venezuela $000	West Germany Units	West Germany $000	All Other Units	All Other $000
1000000000	0	6207	0	0	0	963	0	5257	0	7625
2000000000	0	632	0	252	0	373	0	1559	0	3175
2710003070	0	0	0	0	0	0	0	0	0	117
8428900010	2	23	0	0	0	0	10	87	0	0
8431390090	0	99	0	0	0	93	0	34	0	2179
8456100000	1	15	0	0	1	14	5	180	8	374
200000	0	0	0	0	0	0	0	0	0	0
8477106010	3	138	0	0	0	0	0	0	0	0
106070	1	67	0	0	1	40	2	272	2	100
200010	0	0	0	0	0	0	1	200	0	0
200050	0	0	0	0	1	78	1	10	3	204
300000	1	1318	0	0	0	0	0	0	1	17
400000	0	0	0	0	0	0	0	0	3	87
510010	1	31	0	0	14	1099	7	187	14	275
510090	8	7	0	0	0	0	0	0	11	90
590000	34	610	0	0	0	0	8	272	19	157
800000	16	325	0	0	8	114	0	0	39	1707
8479899040	0	0	0	0	5	33	51	523	0	0
908040	0	190	0	0	0	0	0	102	0	70
8537100030	27	400	0	0	1	8	7	139	20	241
9024100000	0	767	0	233	0	23	0	1006	0	315
9031100000	0	0	0	0	0	4	0	16	0	225
300000	0	311	0	0	0	0	0	15	0	49
9032810040	123000	6286	0	0	1	4	1381	163	2712	300

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	24	16	34	108	58	123
East Germany	0	0	0	0	0	0
Finland	20	52	8	17	28	69
Greece	0	0	2	40	2	40
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	23	93	21	437	44	530
Luxembourg	0	0	0	0	0	0
Norway	4	80	37	32	41	111
Poland	0	0	0	0	0	0
Portugal	5	3	0	0	5	3
Romania	0	0	0	0	0	0
Sweden	47	50	22	263	69	313
Turkey	59	2450	25	167	84	2617
Yugoslavia	4	49	0	0	4	49
Oth Europe	0	0	8	33	8	33
TOTAL	998	17089	623	11769	1621	28858
NORTH AND CENTRAL AMERICA						
Bahamas	3	4	0	0	3	4
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	5	554	4	56	9	610
Dominican Rep	5	168	4	87	9	254
El Salvador	1	17	0	0	1	17
Guatemala	1	3	0	0	1	3
Haiti	0	0	0	0	0	0
Honduras	0	0	2	42	2	42
Jamaica	2	27	0	0	2	27
Panama	0	0	6	5	6	5
Trinidad	0	0	3	72	3	72
Oth N & C Am.	24	29	10	9	34	38
TOTAL	1672	10777	690	8654	2362	19430
SOUTH AMERICA						
Argentina	27	17	14	691	41	708
Bolivia	2	56	0	0	2	56
Chile	26	245	16	106	42	352
Colombia	7	25	19	349	26	374
Ecuador	0	0	1	6	1	6
Paraguay	2	19	4	8	6	27
Peru	4	9	2	10	6	19
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	1	15	1	15
TOTAL	213	2478	134	4906	347	7384
OCEANIA						
New Zealand	4	200	0	0	4	200
Oth Oceania	2	6	0	0	2	6
TOTAL	114	1134	20	147	134	1281

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	116	455	31	33	147	488
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	35	742	11	375	46	1117
Jordan	8	5	1	18	9	22
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	3	31	0	0	3	31
Pakistan	0	0	4	41	4	41
Philippines	8	155	23	625	31	780
Qatar	0	0	0	0	0	0
Saudi Arabia	25	32	4	122	29	154
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	7	17	0	0	7	17
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	14	60	14	60
TOTAL	904	13037	508	16299	1412	29335
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	6	298	1	74	7	372
Ethiopia	0	0	9	172	9	172
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	16	51	14	313	30	364
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	22	349	24	559	46	908

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

RELEASED: January 30, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	788	55193	59	4465
301050	Electro-discharge machines, n.e.c., NC	310	18844	13	867
301070	Electro-discharge machines, n.e.c., non-NC	422	8959	120	1290
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1890	151942	118	11092
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	129	24246	11	1658
100035	Horiz. mach. ctrs., ATC	582	131724	35	9211
100045	Mach. ctrs., n.e.c.	206	62478	4	1749
200010	Unit construction mach. (single station transfer), NC	20	2577	1	221
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	51	38642	2	1566
300090	Multi-station transfer machines, non-NC	82	36895	6	1184
8458110010	Horiz. lathes, multiple spindle, NC	266	47112	13	2199
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1985	141118	91	7122
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	528	74858	21	3389
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	48	13456	1	170
190030	Horiz. engine or toolroom lathes, non-NC	3933	40565	417	3591
190050	Automatic bar and/or chucking mach., single spindle, non-NC	836	14805	63	792
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	127	10453	5	1135
190090	Horiz. lathes, n.e.c., non-NC	1591	15803	124	1006
911060	Vertical turret lathes, multiple spindle, NC	22	3936	0	0
911080	Vertical turret lathes, n.e.c., NC	56	11581	7	1898
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	93	11951	13	2804
991050	Vertical turret lathes, non-NC	97	4245	2	178
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1080	20658	60	762
8459100000	Way-type unit head machines	6	1822	1	104
210080	Other drilling machines, NC	309	22200	18	1572
290040	Drilling machines, multiple spindle, non-NC	74	1869	0	0
290050	Drilling machines, radial, non-NC	444	3147	47	192
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	79	773	4	16
290090	Drilling machines, n.e.c., non-NC	421	14109	14	638
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	10	2476	1	68
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	85	13213	3	941
310070	Boring-milling mach., n.e.c., NC	38	2953	6	101
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	28	2199	1	198
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	96	5912	3	19
400040	Boring machines, vertical, NC	3	1471	0	0
400050	Boring machines, vertical, non-NC	64	1974	15	288
400070	Boring machines, n.e.c., NC	28	3553	1	271
400080	Boring machines, n.e.c., non-NC	256	6607	50	704
510080	Milling machines, knee type, NC	509	9289	24	420
590030	Milling machines, knee type, non-NC	3075	22157	289	1978
610080	Milling machines, excl. knee type, n.e.c., NC	485	23172	43	2481
690050	Milling machines, profile, dup., or die sinking, non-NC	34	386	1	42
690070	Milling machines, bed type, non-NC	52	3647	3	362
690090	Milling machines, n.e.c., non-NC	800	19762	72	928
700020	Threading or tapping machines, n.e.c., NC	163	8933	24	1755
700080	Threading or tapping machines, n.e.c., non-NC	178	5100	29	644
8460110080	Flat surface grinding mach., NC	126	12301	9	966
190010	Flat surface grinding mach., recip.-table type, non-NC	1023	11890	50	566
190050	Flat surface grinding mach., n.e.c., non-NC	1799	18098	150	1287
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	473	81410	41	5751
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	455	17917	38	2357
290030	Grinding mach., internal cylindrical, non-NC	214	11552	22	349
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1028	42092	46	2478
310080	Sharpening machines (tool & cutter grinding), NC	234	5564	11	328
390050	Sharpening machines (tool & cutter grinding), non-NC	755	9063	45	495
400060	Honing or lapping machines, NC	34	4576	0	0
400080	Honing or lapping machines, non-NC	223	8176	18	318
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	52	3705	5	47
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1407	39416	118	1963
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	83	2974	0	0
200090	Shaping or slotting machines, non-NC	158	6735	2	10
300060	Broaching machines, NC	13	11534	2	383
300080	Broaching machines, non-NC	78	7289	6	2788
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	113	10401	6	1551
401040	Gear shapers	30	10901	0	0
401060	Gear cutting machines, n.e.c.	169	583	14	13
405050	Gear grinding or finishing for bevel gears	60	1679	0	0
405070	Gear grinding or finishing machines, n.e.c.	101	26617	20	2228
500050	Sawing or cutting-off machines, NC	99	6038	9	190
500090	Sawing or cutting-off machines, non-NC	1793	30183	114	1421
9000000001	Metal cutting machine tools, n.e.c.	350	18016	40	1591
9800000001	Used or rebuilt machine tools	7295	30648	921	1724
9900000001	Machine tools valued at less than $2,500	863188	85523	77160	6772
	Cutting Total			80682	107641
	Y-T-D Cutting Total	903742	1634218		
	NC Y-T-D Cutting Total	9745	1011052		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	1	18	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	178	0	0
995090	0	0	31	331	2	10	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	6	0	0	2	13
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	11	167
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	76	28	547	1	5
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	5	722	2	70	0	0
690050	0	0	0	0	0	0	0	0	1	42
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	37
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	5	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	4	36	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	1	0	0	11	32	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	6	19	2	133	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	1	3	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	3	9	231
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	3	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	14
500090	0	0	0	0	24	233	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	1	3	1	9	7	17	1	8	3	133
9900000001	15	4	0	0	37	30	62	110	2280	565
Month Tot	18	12	32	340	103	1208	99	1052	2310	1208
Y-T-D Tot	68	1670	2006	12277	1538	19946	1782	22586	31451	50804
NC YTD Tot	4	122	7	573	47	5176	81	9149	126	16656

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	49	3735	0	0	0	0	0	0	0	0
301050	9	548	0	0	0	0	0	0	0	0
301070	4	88	0	0	0	0	0	0	101	162
8457100015	82	7916	0	0	10	676	0	0	0	0
100025	9	1418	0	0	0	0	0	0	0	0
100035	34	9066	0	0	0	0	0	0	0	0
100045	4	1749	0	0	0	0	0	0	0	0
200010	0	0	1	221	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	1566	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	11	1706	0	0	0	0	0	0	0	0
110030	58	5421	2	139	0	0	0	0	0	0
110050	15	2089	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	1	170	0	0
190030	1	43	13	143	26	353	48	437	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	3	305	0	0	0	0	0	0	0	0
190090	16	55	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	2	784	1	120	0	0	0	0	1	581
915050	0	0	0	0	0	0	0	0	0	0
915070	13	2804	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	35	5	271	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	15	1339	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	17	53
290070	4	16	0	0	0	0	0	0	0	0
290090	9	365	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	1	198	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	105	0	0	0	0	0	0	0	0
400070	1	271	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	56	0	0	0	0	156	1216	0	0
610080	1	392	0	0	0	0	2	128	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	42	0	0	0	0	0	0	2	320
690090	1	57	0	0	2	7	0	0	2	41
700020	24	1755	0	0	0	0	0	0	0	0
700080	1	185	0	0	0	0	0	0	0	0
8460110080	2	65	0	0	0	0	0	0	0	0
190010	1	108	0	0	29	374	0	0	0	0
190050	6	16	0	0	0	0	1	37	0	0
210080	17	4978	0	0	0	0	0	0	0	0
290010	15	604	0	0	0	0	0	0	0	0
290030	1	123	0	0	0	0	0	0	0	0
290050	10	1061	0	0	0	0	2	167	0	0
310080	1	43	0	0	0	0	0	0	0	0
390050	11	141	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	185	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	35	903	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	2	383	0	0	0	0	0	0	0	0
300080	2	7	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	43	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	7	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	23	495	0	0	0	0	0	0	0	0
9000000001	1	70	0	0	0	0	0	0	0	0
9800000001	66	321	800	90	0	0	0	0	4	121
9900000001	3878	599	222	29	36	6	0	0	384	410
Month Tot	4453	54217	1045	1057	103	1416	210	2156	511	1689
Y-T-D Tot	60216	795366	11749	17073	1048	17720	2020	24298	2869	15920
NC YTD Tot	5697	673676	126	9050	162	8673	93	2795	18	5753

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - November 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	4	576	3	43	0	0	0	0	3	112
301050	3	301	0	0	1	18	0	0	0	0
301070	2	289	8	42	1	529	1	68	3	113
8457100015	0	0	0	0	15	1159	7	1256	4	84
100025	0	0	2	240	0	0	0	0	0	0
100035	0	0	1	145	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	5	983	0	0	0	0	1	202	0	0
8458110010	0	0	0	0	0	0	2	493	0	0
110030	1	180	8	547	12	563	0	0	10	272
110050	0	0	0	0	1	154	0	0	5	1146
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	69	527	17	338	0	0	242	1732
190050	1	132	36	270	2	290	0	0	24	100
190070	2	830	0	0	0	0	0	0	0	0
190090	0	0	33	373	20	391	0	0	55	187
911060	0	0	0	0	0	0	0	0	0	0
911080	3	413	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	8	23	1	7	4	42	8	43
8459100000	0	0	0	0	1	104	0	0	0	0
210080	0	0	0	0	0	0	2	219	1	14
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	30	139
290070	0	0	0	0	0	0	0	0	0	0
290090	1	23	0	0	0	0	2	174	2	76
310010	0	0	0	0	0	0	0	0	1	68
310040	1	804	0	0	0	0	2	137	0	0
310070	0	0	0	0	0	0	6	101	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	13	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	16	70	2	6
510080	0	0	13	142	1	64	10	214	0	0
590030	0	0	55	340	0	0	6	75	69	291
610080	1	66	16	147	2	56	5	846	9	54
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	25	118	0	0	9	397	31	271
700020	0	0	0	0	0	0	0	0	0	0
700080	27	70	0	0	0	0	1	389	0	0
8460110080	1	75	0	0	0	0	6	826	0	0
190010	0	0	20	84	0	0	0	0	0	0
190050	2	120	81	622	13	240	2	173	44	74
210080	3	105	0	0	1	262	19	400	1	6
290010	8	1336	0	0	3	63	7	312	1	7
290030	1	85	0	0	0	0	0	0	20	140
290050	1	65	4	35	6	88	10	996	1	32
310080	0	0	0	0	5	42	4	147	1	96
390050	1	10	0	0	19	118	3	28	3	45
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	20	11	113	0	0	0	0
900060	0	0	0	0	0	0	0	0	4	43
900080	7	122	5	41	5	22	31	507	25	134
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	6	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	2416	3	365	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	2	158	0	0	0	0	3	1350	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	5	11	9	3	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	7	1316	0	0	0	0	12	905	0	0
500050	0	0	4	71	0	0	4	105	0	0
500090	2	12	14	97	11	93	6	289	34	202
9000000001	7	419	0	0	0	0	4	329	28	773
9800000001	7	352	0	0	17	362	12	233	2	74
9900000001	85	34	58519	4055	105	48	166	83	11371	797
Month Tot	185	8875	58926	7982	276	7550	377	11750	12034	7130
Y-T-D Tot	2076	84203	667671	116925	5106	95747	12079	287128	102063	72556
NC YTD Tot	353	31464	803	26796	725	61672	911	137607	592	21889

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
November 90

RELEASED: January 30, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	353	26690	17	2434
8462100030	Headers and upsetters, including cold headers	155	14597	11	1112
100050	Forging or die stamping machines, and hammers, n.e.c.	753	42688	57	2291
210080	Bending, folding, straight. or flat. mach., incl presses, NC	509	37423	51	4212
290030	Press brakes, non-NC	288	8322	20	664
290040	Bending rolls, non-NC	91	2948	5	132
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1146	38664	91	3321
310080	Shearing machines, NC	53	4367	2	464
390050	Shearing machines, non-NC	550	15904	42	981
410080	Punching or notching mach., incl. comb. punch & shear, NC	312	37634	19	4010
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	647	15352	85	5066
910060	Hydraulic presses, NC	20	19919	1	1127
910090	Hydraulic presses, non-NC	2374	16741	35	443
990030	Presses, n.e.c., NC	51	4820	0	0
990035	Mechanical transfer presses, non-NC	14	24303	1	9402
990045	Mechanical presses, n.e.c., non-NC	161	5328	6	985
990060	Presses, n.e.c., non-NC	736	33876	60	6078
8463100080	Draw benches for bars, tubes, profiles, wire or the like	124	7567	16	1719
200080	Thread rolling machines	82	5498	3	480
300080	Machines for working wire	1302	63621	84	6574
900080	Metal forming machine tools, n.e.c.	673	30712	94	4585
9800000002	Used or rebuilt machine tools	1378	20543	78	1457
9900000002	Machine tools valued at less than $2,500	18745	5244	2915	358
	Forming Total			3693	57894
	Y-T-D Forming Total	30517	482762		
	NC Y-T-D Forming Total	945	104163		
	Cutting and Forming Totals:				
	Monthly Total			84375	165535
	Y-T-D Total	934259	2116980		
	NC Y-T-D Total	10690	1115216		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	513316	0	45614
2000000000	Parts for working rubber or plastics - heading 8477	0	296758	0	26087
2710003070	Quenching or cutting oils	0	319	0	6
8428900010	Industrial robots for lifting, handling, loading or unload	1772	34808	82	3444
8431390080	Parts industrial robots, handling and loading - heading 8428	0	86722	0	7985
8456101010	Laser, light or photon beam for working metal, NC	158	29246	10	1825
101020	Laser, light or photon beam for working metal, non-NC	75	4031	8	390
105000	Laser, light or photon beam for other materials	547	8832	4	368
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158	0	0
205000	Ultrasonic processes for working other materials	59	229	3	34
8477103000	Injection molding mach., for manufacturing shoes	146	3207	5	135
106010	Injection molding mach., for rubber or oth. thermosetting	771	64393	70	6818
106050	Injection molding mach., for thermoplastics	2314	207148	178	11451
200010	Extruders for rubber or other thermosetting materials	196	14273	10	645
200050	Extruders for processing thermoplastics	928	59171	51	3860
300000	Blow molding machines	324	45689	18	4783
400000	Vacuum-molding and other thermoforming machines	226	9176	42	1274
510010	Machines for molding or retreading pneumatic tires	538	52849	36	7701
510090	Machines for molding or otherwise forming inner tubes	266	13337	4	1125
590000	Machines for molding or otherwise forming n.e.c.	936	47114	47	2889
800000	Machines for working rubber or plastics n.e.c.	14739	109629	4325	9395
8479899040	Industrial robots, n.e.c.	14007	71955	349	8396
908040	Industrial robot parts	0	32363	0	3416
8537100030	Numerical controls for controlling machine tools	10406	42711	469	3033
9024100000	Machines and appliances for testing metals	0	11926	0	748
9031100000	Machines for balancing mechanical parts	0	11935	0	1161
300000	Profile projectors	0	6082	0	442
9032810020	Industrial process control instr., hydraulic	145209	2290	8587	233
810060	Industrial process control instr., pneumatic	225155	4695	11104	517

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	11	976	0	0	1	214
8462100030	0	0	0	0	0	0	0	0	6	312
100050	0	0	0	0	11	258	0	0	0	0
210080	0	0	0	0	10	2046	1	35	2	181
290030	4	123	0	0	14	511	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	27	877	0	0	11	115
310080	0	0	0	0	0	0	0	0	0	0
390050	11	219	0	0	12	324	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	60	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	10	0	0	4	104
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	31	1349	0	0	8	646
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	123	1	3	5	959
900080	0	0	0	0	14	1290	16	97	1	482
9800000002	5	98	0	0	44	411	0	0	3	5
9900000002	0	0	0	0	7	7	5	10	34	18
Month Tot	21	499	0	0	186	8182	23	145	75	3035
Y-T-D Tot	525	20015	13	202	2000	62684	335	3384	1772	35640
NC YTD Tot	39	3364	0	0	56	7037	4	173	62	2111
C&F Month	39	511	32	340	289	9390	122	1197	2385	4243
C&F Y-T-D	593	21685	2019	12479	3538	82630	2117	25970	33223	86444
C&F NC YTD	43	3486	7	573	103	12213	85	9322	188	18766

Other Manufacturing Technology

1000000000	0	299	0	97	0	4378	0	833	0	1492
2000000000	0	33	0	21	0	5699	0	4638	0	681
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	0	0	3	40	7	336	9	168
8431390080	0	0	0	8	0	1333	0	150	0	13
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	39	2	34	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	2	133
106010	0	0	0	0	4	469	1	153	0	0
106050	0	0	0	0	27	3889	1	332	8	264
200010	0	0	0	0	0	0	0	0	5	60
200050	1	342	0	0	8	126	0	0	3	54
300000	0	0	0	0	1	26	1	2233	0	0
400000	0	0	0	0	0	0	4	250	0	0
510010	0	0	0	0	9	939	0	0	4	125
510090	0	0	0	0	0	0	2	19	0	0
590000	1	792	0	0	2	82	10	91	0	0
800000	14	104	0	0	87	155	6	551	15	91
8479899040	0	0	0	0	3	240	1	26	0	0
908040	0	0	0	0	0	44	0	34	0	132
8537100030	0	0	0	0	1	58	0	0	1	2
9024100000	0	10	0	0	0	41	0	0	0	14
9031100000	0	0	0	1	0	2	0	0	0	13
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	0	0	100	7	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	848	1	57	0	0	0	0	0	0
8462100030	3	295	0	0	0	0	0	0	0	0
100050	11	406	4	61	0	0	0	0	6	2
210080	16	779	0	0	0	0	0	0	0	0
290030	1	9	0	0	1	22	0	0	0	0
290040	1	58	0	0	0	0	0	0	1	61
290050	36	978	0	0	0	0	0	0	2	95
310080	1	173	0	0	0	0	1	292	0	0
390050	8	272	0	0	1	20	0	0	1	10
410080	3	461	0	0	0	0	0	0	4	1330
490050	37	4315	0	0	0	0	7	127	1	13
910060	1	1127	0	0	0	0	0	0	0	0
910090	3	51	0	0	0	0	0	0	1	206
990030	0	0	0	0	0	0	0	0	0	0
990035	1	9402	0	0	0	0	0	0	0	0
990045	2	102	0	0	0	0	0	0	0	0
990060	3	2218	1	3	0	0	0	0	1	82
8463100080	10	1347	0	0	0	0	0	0	0	0
200080	1	450	0	0	0	0	0	0	0	0
300080	48	2948	0	0	0	0	0	0	0	0
900080	18	916	0	0	0	0	0	0	0	0
9800000002	2	21	0	0	0	0	1	3	7	118
9900000002	41	84	1	2	0	0	18	31	32	11
Month Tot	250	27258	7	123	2	42	27	452	56	1928
Y-T-D Tot	4156	190907	28	639	84	175	466	3981	606	31491
NC YTD Tot	404	33705	0	0	1	5	2	318	14	24844
C&F Month	4703	81476	1052	1180	105	1458	237	2608	567	3617
C&F Y-T-D	64372	986272	11777	17711	1132	17894	2486	28280	3475	47410
C&F NC YTD	6101	707381	126	9050	163	8679	95	3113	32	30597

Other Manufacturing Technology

1000000000	0	14151	0	34	0	491	0	512	0	1656
2000000000	0	4620	0	133	0	68	0	16	0	311
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	26	1271	0	0	0	0	0	0	22	940
8431390080	0	1466	0	0	0	9	0	0	0	51
8456101010	9	1558	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	1	2
8477103000	0	0	0	0	0	0	0	0	0	0
106010	49	5402	1	114	0	0	0	0	0	0
106050	83	4451	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	5	904	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	5	956	0	0	0	0	0	0	0	0
510010	3	958	0	0	0	0	1	13	0	0
510090	1	1019	0	0	0	0	0	0	0	0
590000	12	918	0	0	0	0	0	0	0	0
800000	1070	2285	0	0	0	0	0	0	0	0
8479899040	181	6837	0	0	0	0	0	0	4	139
908040	0	1026	0	0	0	0	0	0	0	81
8537100030	315	2800	0	0	0	0	0	0	0	0
9024100000	0	208	0	0	0	0	0	0	0	0
9031100000	0	1019	0	0	0	0	0	0	0	2
300000	0	229	0	0	0	0	0	0	0	0
9032810020	12	59	0	0	0	0	0	0	0	0
810060	112	30	0	0	0	0	0	0	1317	155

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	340	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	2	505	0	0
100050	1	1	0	0	11	149	11	1283	2	130
210080	2	443	1	10	17	449	0	0	2	268
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	3	13	0	0	0	0	0	0
290050	0	0	4	25	1	3	5	231	5	997
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	3	31	0	0	6	106
410080	3	441	0	0	1	21	8	1757	0	0
490050	0	0	0	0	5	125	34	426	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	7	54	18	18
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	4	883	0	0	0	0
990060	2	115	4	60	0	0	10	1605	0	0
8463100080	0	0	0	0	0	0	6	373	0	0
200080	0	0	2	30	0	0	0	0	0	0
300080	2	746	0	0	4	25	9	1481	12	289
900080	42	212	0	0	0	0	3	1588	0	0
9800000002	2	46	0	0	3	23	9	684	2	48
9900000002	10	19	400	99	59	12	88	14	2220	52
Month Tot	65	2362	414	238	[illegible]	1721	192	10000	2267	1908
Y-T-D Tot	1902	23123	6694	8406	902	14433	2655	72032	8379	15651
NC YTD Tot	28	4666	8	950	26	683	255	21159	46	5149
C&F Month	250	11237	59340	8220	384	9271	569	21750	14301	9039
C&F Y-T-D	3978	107326	674365	125331	6008	110180	14734	359159	110442	88206
C&F NC YTD	381	36130	811	27746	751	62355	1166	158767	638	27038

Other Manufacturing Technology

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	3163	0	1541	0	4669	0	9513	0	2785
2000000000	0	665	0	1091	0	777	0	6031	0	1302
2710003070	0	0	0	0	0	0	0	6	0	0
8428900010	9	650	0	0	5	36	0	0	1	1
8431390080	0	1903	0	92	0	635	0	1176	0	1149
8456101010	0	0	0	0	0	0	1	267	0	0
101020	0	0	0	0	0	0	8	390	0	0
105000	0	0	0	0	0	0	0	0	1	295
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	2	32	0	0
8477103000	0	0	3	2	0	0	0	0	0	0
106010	2	301	5	158	0	0	3	88	5	134
106050	6	826	21	576	0	0	25	996	7	116
200010	1	99	0	0	2	38	2	447	0	0
200050	0	0	6	219	6	263	18	1619	4	333
300000	0	0	1	16	6	60	6	2337	3	110
400000	0	0	0	0	5	6	25	40	3	22
510010	0	0	0	0	3	5	16	5661	0	0
510090	1	87	0	0	0	0	0	0	0	0
590000	0	0	0	0	4	35	6	951	12	20
800000	3	937	3022	84	15	54	41	3608	52	1526
8479899040	0	0	0	0	1	91	8	617	151	445
908040	0	317	0	0	0	372	0	1209	0	201
8537100030	2	5	25	23	1	22	17	80	107	43
9024100000	0	75	0	18	0	92	0	262	0	29
9031100000	0	26	0	0	0	44	0	15	0	39
300000	0	6	0	0	0	137	0	48	0	21
9032810020	75	5	0	0	0	0	0	0	8500	168
810060	0	0	8886	38	5	2	298	148	386	137

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	111	1716	0	0	111	1716
Bulgaria	0	0	0	0	0	0
Czechoslovakia	7	161	0	0	7	161
Denmark	45	198	1	3	46	200
East Germany	0	0	0	0	0	0
Finland	2	76	4	295	6	371
Hungary	5	192	0	0	5	192
Ireland	4	2	0	0	4	2
Luxembourg	0	0	0	0	0	0
Netherlands	30	812	0	0	30	812
Norway	0	0	0	0	0	0
Poland	18	369	0	0	18	369
Portugal	0	0	3	59	3	59
Romania	0	0	0	0	0	0
USSR	2	14	0	0	2	14
Yugoslavia	115	881	1	128	116	1009
Oth Europe	1	11	0	0	1	11
TOTAL	4326	38722	576	20627	4902	59350
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	20	58	20	58
Oth N & C Am.	0	0	0	0	0	0
TOTAL	103	1208	206	8240	309	9449
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	32	340	0	0	32	340
OCEANIA						
Australia	1	96	0	0	1	96
New Zealand	0	0	1	942	1	942
Oth Oceania	0	0	0	0	0	0
TOTAL	1	96	1	942	2	1038

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Metal Cutting and Metal Forming Machine Tool Totals
November 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	11609	2350	2204	94	13813	2445
Hong Kong	74	54	11	259	85	312
India	6	85	18	2	24	87
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	1	2	2	29	3	31
Malaysia	0	0	1	30	1	30
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	3	112	0	0	3	112
Oth Asia	0	0	0	0	0	0
TOTAL	76220	67275	2909	28075	79129	95350
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	1	10	1	10
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	1	10	1	10

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A8620-3

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

REPORT

STATISTICAL

No. 27-91 March 6, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – 1990

(Values in Millions of U.S. Dollars)

	Dec.* 1990	Nov. 1990	Average Sep.-Nov.	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 49.3	$ 44.9	$ 49.7	$ 600.0	$ 488.8	22.7%
Imports	$132.4	$107.6	$135.8	$1,766.6	$1,859.1	(5.0%)
Balance	($ 83.1)	($ 62.7)	($ 86.1)	($1,166.6)	($1,370.3)	(14.9%)
METAL FORMING MACHINE TOOLS						
Exports	$ 43.0	$ 42.3	$ 36.5	$ 462.5	$ 461.0	0.3%
Imports	$ 55.7	$ 57.9	$ 49.3	$ 538.4	$ 547.5	(1.7%)
Balance	$ 12.7	($ 15.6	($ 12.8)	($ 75.9)	($ 86.5)	(12.3%)
MACHINE TOOL TOTAL						
Exports	$ 92.3	$ 87.2	$ 86.2	$1,062.5	$ 949.8	11.9%
Imports	$188.1	$165.5	$185.2	$2,305.1	$2,406.6	(4.2%)
Balance	($ 95.8)	($ 78.3)	($ 99.0)	($1,242.6)	($1,456.8)	(14.7%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 32.1	$ 28.4	$ 28.0	$ 347.1	$ 248.2	39.8%
Imports	$ 79.2	$ 73.6	$ 93.9	$1,194.4	$1,301.0	(8.2%)
Balance	($ 47.1)	($ 45.2)	($ 65.9)	($ 847.3)	($1,052.8)	(19.5%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$141.4	$153.2	$154.3	$1,812.4	NA	NA
Imports	$178.9	$153.8	$153.1	$1,963.3	NA	NA
Balance	($ 37.5)	($ 0.6)	$ 1.2	($ 150.9)	NA	NA

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

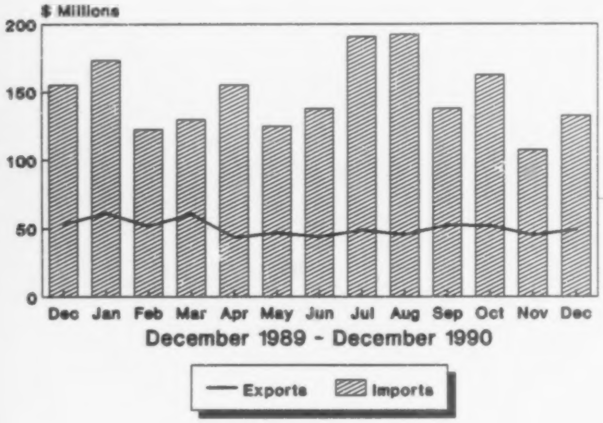
- U.S. machine tool exports in 1990 of $1.1 billion were the highest annual total ever and the seventh straight annual increase. The export total in December of $92.3 million was the highest monthly total since March 1990.

- U.S. machine tool imports in 1990 were $2.3 billion, down 4% from the record total in 1989.

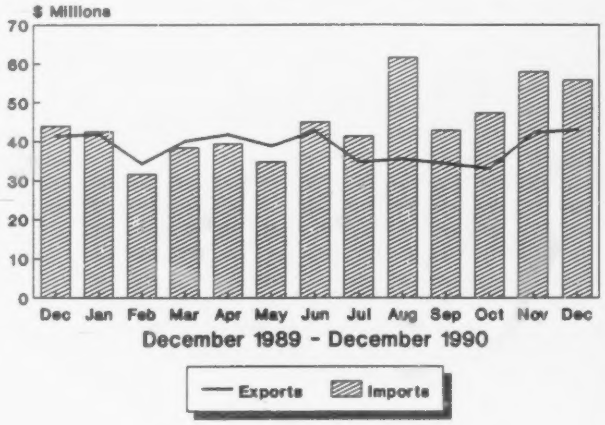
- The U.S. trade deficit in machine tools fell 15% in 1990 over 1989 to $1.2 billion.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

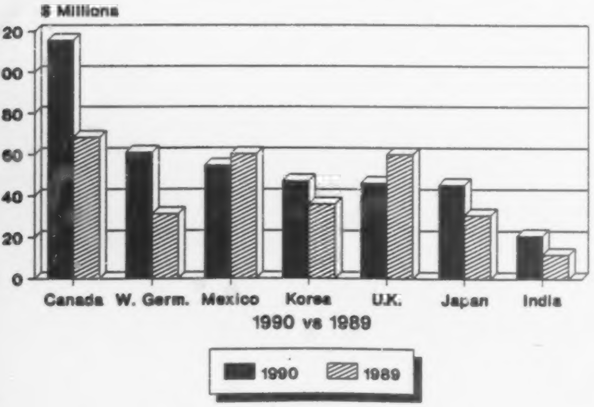
Exports

- Exports of metal cutting machines were $600.0 million in 1990, 23% higher than 1989 and 35% higher than 1988. Metal cutting exports have now risen every year since 1984.

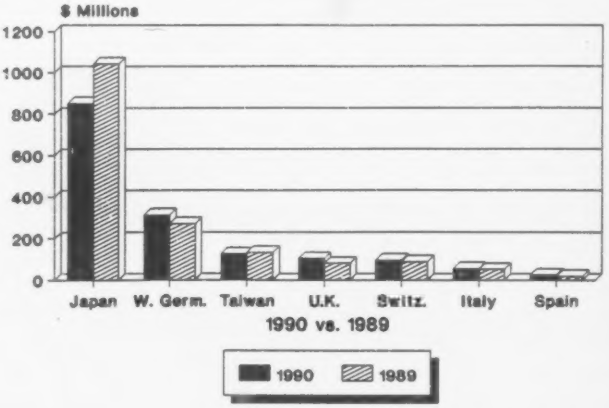
- Exports of grinding machines totalled $130.6 million in 1990, up from $128.4 million in 1989. Exports of machining centers reached $56.6 million in 1990, up from $45.7 million in 1989.

- Canada was the top export market in 1990 at $115.6 million, up 69% over 1989. Exports to Germany of $61.2 million were up 96% over 1989. Exports to Germany were led by station type machines ($30.0 million) and grinding machines ($9.5 million).

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Metal cutting machine tool imports in 1990 totalled $1.8 billion, down 5% from last year's record high.

- Japan was the top import source at $852.6 million, down 18% from 1989. The rest of the top five: Germany ($313.0 million, up 15%), Taiwan ($126.2 million, down 4%), the United Kingdom ($105.0 million, up 30%), and Switzerland ($95.4 million, up 10%).

- Imports of grinding machines totalled $300.1 million in 1990, up from $273.6 million in 1989. Imports in 1990 of machining centers ($399.9 million) and NC horizontal lathes ($289.6) were down 3% and 23%, respectively, from 1989.

METAL FORMING MACHINE TOOLS

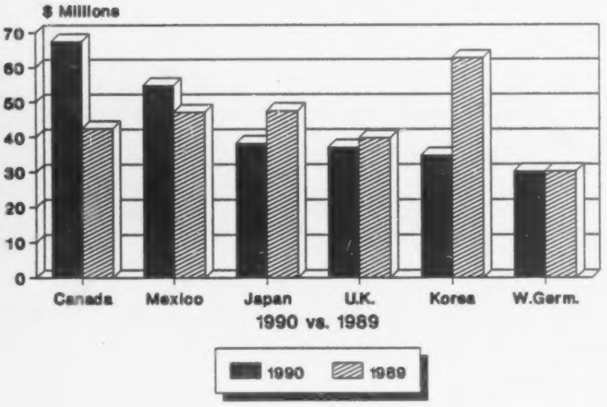
Exports

- Exports of metal forming machines in 1990 were $462.5 million, up slightly from 1989. The top export markets: Canada ($67.4 million), Mexico ($54.7 million), Japan ($38.2 million), the United Kingdom ($37.1 million) and South Korea ($34.7 million).

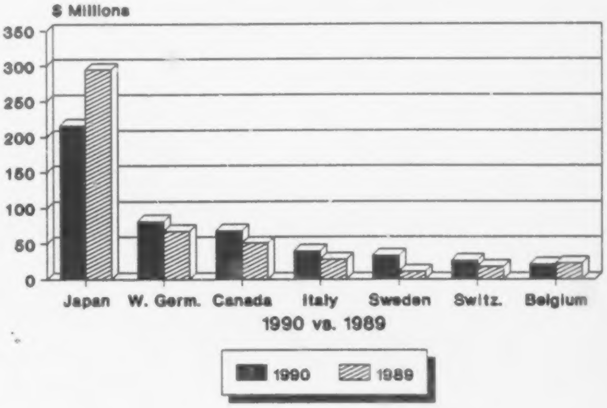
- Exports of bending and forming machines were $73.7 million in 1990, up from $46.7 million in 1989. Exports of forging machines totalled $51.2 million, up 25% from 1989.

- Exports of presses in 1990 were $99.2 million. The top export markets: Mexico ($14.0 million), Korea ($13.0 million), Canada ($8.3 million) and Germany ($7.8 million).

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Imports in 1990 of metal forming machines totalled $538.4 million, down from $547.5 million in 1989. The major sources: Japan ($215.9 million), Germany ($81.0 million), Canada ($68.4 million) and Italy ($39.5 million).

- Imports of presses were $124.0 million, down from $142.8 million in 1989. The major sources of presses in 1990: Japan ($58.8 million), Canada ($18.3 million), Sweden ($16.5 million) and Germany ($13.3 million).

- Imports of punching and shearing machines were $76.5 million, up from $75.3 million in 1989. The major sources of punching and shearing machines in 1990: Japan ($30.0 million), Germany ($17.0 million), Switzerland ($5.1 million) and Canada ($4.1 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories totalled $722.1 million, up from $714.3 million in 1989. The major export markets for parts and accessories in 1990: Canada ($159.0 million), the United Kingdom ($75.6 million), Germany ($70.5 million) and Japan ($66.1 million).

- Exports of injection molding machines for processing thermoplastics were $54.1 million in 1990, up from $47.0 million in 1989. Exports of extruders for processing thermoplastics totalled $41.5 million in 1990, up from $35.6 million in 1989.

Imports

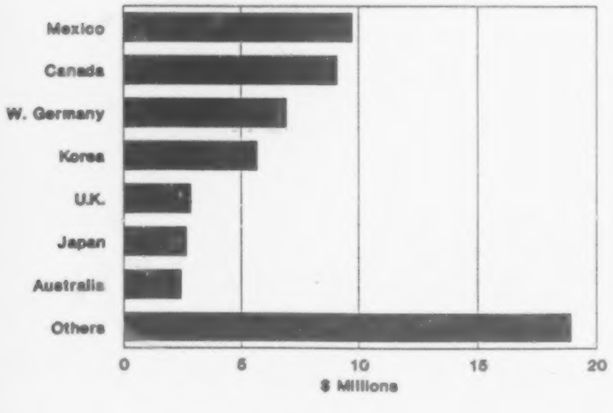
- Imports of injection molding machines for processing thermoplastics totalled $223.6 million in 1990, down from $268.0 million in 1989. The major import sources: Japan ($89.8 million), Canada ($45.7 million) and Germany ($42.8 million).

- Imports of blow molding machines totalled $52.2 million in 1990, up from $43.1 million in 1989. The major sources: France ($19.6 million), Germany ($15.5 million) and Japan ($9.8 million).

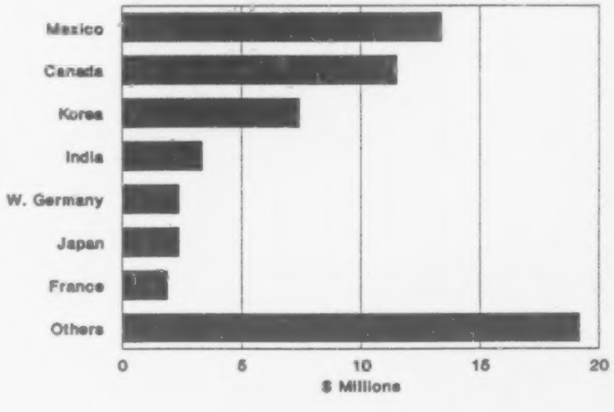
MONTHLY FOCUS

U.S. exports of used or rebuilt machine tools reached $119.7 million in 1990, up from $117.6 million in 1989. Of the total in 1990, $58.2 million were metal cutting machines and $61.5 million were metal forming machines. The charts below detail U.S. exports of used or rebuilt machine tools in 1990 by country of destination. A separate page details exports of used or rebuilt machines by type of machine. Mexico is the leading U.S. export market for used or rebuilt machines, followed by Canada and South Korea.

U.S. Exports of Used or Rebuilt
Metal Cutting Machines 1990



U.S. Exports of Used or Rebuilt
Metal Forming Machines 1990



U.S. Exports of Used or Rebuilt Machine Tools 1990
(Values in Thousands of U.S. Dollars)

		Units	Value
MACHINE TOOL TOTAL		**8,249**	**119,669**
METAL CUTTING TOTAL		**5,007**	**58,208**
8457100005	Machining centers, used or rebuilt	314	5,710
8458110005	Horizontal lathes, used or rebuilt, NC	450	4,067
190010	Horizontal lathes, used or rebuilt, non-NC	719	3,321
911040	Vertical turret lathes, used or rebuilt, NC	109	1,089
915040	Vertical lathes, excl. VTL's, used or rebuilt, NC	98	910
991010	Vertical lathes, excluding VTL's, used or rebuilt, non-NC	42	1,008
995030	Vertical lathes, excl. VTL's, used or rebuilt, non-NC	57	713
8459210040	Other drilling machines, used or rebuilt, NC	155	910
290010	Other drilling machines, , used or rebuilt, non-NC	170	974
310005	Boring-milling machines, used or rebuilt, NC	38	841
390010	Boring-milling machines, n.e.c., used or rebuilt, non-NC	43	762
400010	Boring machines, used or rebuilt	113	2,349
510040	Milling machines, knee type, used or rebuilt, NC	10	1,057
590010	Milling machines, knee type, used or rebuilt, non-NC	87	473
610040	Milling machines, excluding knee type, used or rebuilt, NC	40	2,793
690010	Milling machines, excl. knee type, used or rebuilt, non-NC	140	5,059
700040	Threading or tapping machines, used or rebuilt	169	1,665
8460110040	Flat surface grinding machines, used or rebuilt, NC	325	1,421
190005	Flat surface grinding machines, used or rebuilt, non-NC	296	1,390
210040	Grind. mach., accur. 0.01mm, n.e.c., used or rebuilt, NC	128	1,926
290005	Grind. mach., accur. 0.01mm, n.e.c., used or rebuilt, non-NC	319	3,224
310040	Sharpen. mach. (tool or cutter grind.), used or rebuilt, NC	42	172
390010	Sharp. mach. (tool or cutter gr.), used or rebuilt, non-NC	67	198
400010	Honing or lapping machines, used or rebuilt	184	1,409
900010	Grind., honing, polish. mach. n.e.c., used or rebuilt	200	1,593
8461100020	Planing machines, used or rebuilt	66	1,298
200030	Shaping or slotting machines, used or rebuilt	26	264
300020	Broaching machines, used or rebuilt	15	239
401010	Gear cutting machines, used or rebuilt	64	3,362
405020	Gear grinding or finishing machines, used or rebuilt	111	1,625
500010	Sawing or cutting-off machines, used or rebuilt	237	2,856
900010	Metal cutting machine tools n.e.c., used or rebuilt	173	3,531
METAL FORMING TOTAL		**3,242**	**61,461**
8462100010	Forging or die stamping machines, used or rebuilt	351	8,900
210040	Bend., fold., straight. or flat. mach., used or rebuilt, NC	127	4,319
290010	Bend., fold., straight. mach., used or rebuilt, non-NC	462	7,370
310040	Shearing machines, used or rebuilt	51	2,988
390010	Shearing machines, used or rebuilt, non-NC	111	2,224
410040	Punch. or notch. mach., incl comb. p&sh, used or rebuilt, NC	108	3,340
490010	Punch. or notch., incl. comb.p&sh, used or rebuilt, non-NC	355	8,993
910030	Hydraulic presses, used or rebuilt	412	5,448
990010	Presses, excl. hydraulic, used or rebuilt	356	4,699
8463100040	Draw benches for bars, tubes, etc., used or rebuilt	87	2,390
200040	Thread rolling machines, used or rebuilt	22	315
300040	Machines for working wire, used or rebuilt	572	4,716
900040	Metal forming machine tools n.e.c., used or rebuilt	228	5,758

n.e.c. = not elsewhere classified

Source: U.S. Bureau of the Census

U.S. Exports of Machine Tools 1990*
By Type of Machine and Destination
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL BORING MACHINES	**154**	**$15,808**
Canada	44	6,029
Brazil	8	1,850
Korea	7	1,751
Italy	5	1,375
Israel	1	1,274
Mexico	32	1,069
U.K.	4	633
Australia	11	400
Venezuela	5	393
West Germany	7	368
Other Countries	30	666
TOTAL DRILLING MACHINES	**974**	**17,998**
Canada	402	6,500
Mexico	217	2,815
U.K.	25	1,355
West Germany	19	1,209
Korea	40	630
China	10	628
Chile	2	623
Taiwan	8	510
Sweden	8	386
Israel	3	385
Other Countries	240	2,957
TOTAL GEAR CUTTING	**256**	**58,881**
Korea	66	14,788
Japan	34	10,536
Canada	28	4,762
West Germany	24	4,747
USSR	14	4,615
Italy	12	4,438
Brazil	9	3,628
India	4	1,845
Spain	2	1,425
Australia	2	1,153
Other Countries	61	6,944
TOTAL GRINDING MACHINES	**4,026**	**130,596**
Canada	751	29,796
Japan	467	14,397
Mexico	342	9,896
West Germany	404	9,477
China	101	7,848
Korea	469	7,255
India	94	6,346
Brazil	132	5,204
U.K.	147	5,167
Italy	151	4,705
Australia	56	4,010
USSR	14	3,208
Switzerland	105	2,647
France	66	2,438
Netherlands	44	2,181
Taiwan	86	2,166
Singapore	49	1,834
Yugoslavia	8	1,251
Portugal	4	1,240
Spain	47	953
Poland	14	938
South Africa	57	715
Israel	49	666
Hong Kong	19	664
Sweden	17	630
Other Countries	333	4,964

	Units	Value
TOTAL NC HORIZ. LATHES	**409**	**$43,897**
Canada	74	13,349
U.K.	126	9,069
Belgium	83	7,301
Japan	35	2,299
Australia	8	2,230
France	19	1,752
Mexico	13	1,626
China	5	831
West Germany	10	802
Brazil	3	801
Other Countries	33	3,837
TOTAL NC VERTICAL LATHES	**72**	**13,150**
India	20	6,687
Mexico	31	2,633
Canada	5	1,905
Italy	2	830
Brazil	8	470
U.K.	1	188
Japan	2	128
Venezuela	1	110
Egypt	1	108
Taiwan	1	90
TOTAL NON-NC LATHES	**790**	**16,880**
Mexico	218	3,894
Canada	136	3,619
U.K.	140	2,623
Venezuela	7	1,576
Japan	39	796
Italy	31	796
Korea	21	771
West Germany	14	480
Australia	61	316
Brazil	6	286
Other Countries	117	1,723
TOTAL MILLING MACHINES	**443**	**34,996**
Korea	13	5,403
Canada	80	3,977
Taiwan	5	3,925
Mexico	141	3,848
Australia	26	3,478
China	15	2,191
U.K.	10	1,592
Singapore	10	1,578
Brazil	7	859
Japan	19	827
Other Countries	117	7,318
TOTAL STATION TYPE	**82**	**51,075**
West Germany	21	27,992
U.K.	6	9,863
Mexico	26	4,263
Turkey	4	3,480
Canada	2	1,860
Korea	7	760
Spain	2	663
Brazil	5	572
Japan	1	556
Taiwan	1	245
Other Countries	7	821

U.S. Exports of Machine Tools 1990* (continued)

	Units	Value
TOTAL MACHINING CENTERS	**388**	**56,616**
Canada	99	17,144
Belgium	62	9,792
China	34	6,297
Korea	37	5,161
Mexico	55	4,191
U.K.	28	3,951
West Germany	13	2,588
Japan	15	1,612
Italy	4	988
Sweden	2	514
Other Countries	39	4,378

	Units	Value
TOTAL METAL CUT. N.E.C.	**4,077**	**78,434**
Canada	778	14,037
Japan	276	9,860
U.K.	302	6,787
Mexico	428	6,321
West Germany	182	4,799
Korea	139	3,434
Singapore	149	2,735
Italy	89	2,255
Taiwan	112	2,066
Venezuela	223	2,017
India	21	1,944
Brazil	62	1,883
Other Countries	1,316	20,296

	Units	Value
TOTAL PUNCH. & SHEARING	**1,569**	**65,371**
Canada	393	12,570
U.K.	110	7,176
Mexico	210	6,701
Netherlands	60	5,790
France	52	4,269
China	62	4,068
Japan	112	3,768
West Germany	46	2,720
Korea	22	1,776
Brazil	85	1,495
Taiwan	25	1,253
Italy	38	1,198
Spain	4	1,148
Argentina	4	1,069
Singapore	26	1,038
Other Countries	320	9,332

	Units	Value
TOTAL BENDING & FORMING	**1,859**	**73,708**
Canada	553	18,336
Mexico	225	8,919
Indonesia	206	4,976
Philippines	65	4,789
Korea	90	3,618
Algeria	1	3,050
China	19	2,948
West Germany	74	2,559
Japan	67	2,550
Australia	46	2,442
Thailand	15	1,964
Taiwan	44	1,835
France	54	1,740
U.K.	48	1,675
Singapore	29	1,249
Brazil	37	1,218
India	12	1,021
Other Countries	274	8,819

	Units	Value
TOTAL PRESSES	**2,032**	**99,165**
Mexico	784	14,010
Korea	89	12,988
Canada	200	8,278
West Germany	75	7,812
U.K.	116	7,649
Taiwan	104	6,908
Japan	108	6,561
France	38	4,134
China	51	3,465
Italy	30	2,394
Thailand	15	1,942
Brazil	44	1,820
Saudi Arabia	13	1,682
Sweden	18	1,653
Greece	3	1,567
Iraq	14	1,530
Australia	24	1,394
Switzerland	10	1,309
Other Countries	296	11,978

	Units	Value
TOTAL FORGING MACHINES	**360**	**51,210**
Japan	53	16,576
U.K.	78	6,926
West Germany	31	4,537
Canada	35	4,173
Korea	41	3,094
France	4	2,357
Taiwan	9	1,810
Mexico	27	1,629
Chile	3	1,502
Spain	12	1,399
Brazil	10	1,395
Italy	5	1,291
Poland	1	1,060
Other Countries	51	3,461

	Units	Value
TOTAL METAL FORMING N.E.C.	**3,053**	**100,563**
U.K.	396	11,214
Canada	318	10,626
West Germany	299	9,438
Mexico	390	7,360
Japan	135	5,694
Korea	125	5,607
France	104	4,737
China	67	4,565
Iraq	46	4,366
Taiwan	46	4,106
Italy	78	3,508
Brazil	109	3,487
Greece	25	2,925
Malaysia	56	2,874
Australia	75	2,215
Spain	71	1,699
Netherlands	77	1,671
India	107	1,419
Singapore	43	1,157
Portugal	44	1,146
Thailand	57	1,120
Saudi Arabia	15	1,003
Philippines	21	724
Sweden	29	697
Venezuela	18	681
Austria	23	560
South Africa	13	442
Hong Kong	21	429
Other Countries	245	5,093

*Includes new machines valued over $2,500 only
n.e.c. – not elsewhere classified

Source: U.S. Bureau of the Census

U.S. Imports of Machine Tools 1990*
By Type of Machine and Country of Origin
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL BORING MACHINES	**662**	**$44,547**
West Germany	138	13,379
Japan	35	7,675
Italy	176	6,493
U.K.	17	4,681
Switzerland	10	2,951
France	87	2,607
Canada	64	1,561
Spain	9	1,288
Yugoslavia	14	1,016
Taiwan	38	702
Other Countries	74	2,194
TOTAL DRILLING MACHINES	**1,442**	**43,701**
Japan	385	22,087
France	26	4,991
West Germany	80	4,107
Italy	29	2,629
Spain	255	2,236
Canada	20	1,321
Switzerland	18	1,054
Taiwan	170	964
Brazil	53	912
U.K.	7	807
Other Countries	399	2,593
TOTAL_ GEAR CUTTING	**526**	**56,795**
West Germany	239	38,220
Switzerland	103	8,939
Japan	85	5,388
Netherlands	5	1,096
U.K.	38	1,022
East Germany	20	1,021
Italy	5	381
Brazil	1	172
China	12	153
France	1	129
Other Countries	17	274
TOTAL GRINDING MACHINES	**8,449**	**300,119**
Japan	1,449	115,319
West Germany	1,564	79,788
Switzerland	382	24,669
U.K.	670	19,666
Taiwan	2,341	15,399
Italy	300	14,133
Sweden	68	9,195
Singapore	419	5,317
Spain	39	3,813
Canada	366	3,009
China	214	1,627
Yugoslavia	187	1,556
Netherlands	37	1,399
Australia	43	1,391
Denmark	137	902
France	70	699
India	39	507
Other Countries	124	1,730

	Units	Value
TOTAL NC HORIZ. LATHES	**2,941**	**289,649**
Japan	2,386	238,264
West Germany	66	17,767
Taiwan	142	7,839
Austria	126	6,429
U.K.	93	6,155
France	33	3,485
Italy	6	2,738
Switzerland	13	2,676
Korea	44	2,617
Hungary	19	726
Other Countries	13	953
TOTAL NC VERT. LATHES	**175**	**27,887**
Japan	89	17,463
France	17	2,374
Italy	8	2,124
Switzerland	20	1,532
Austria	16	1,208
West Germany	4	1,110
Sweden	2	782
Korea	5	578
Canada	6	412
Taiwan	4	203
Other Countries	4	100
TOTAL NON-NC LATHES	**8,388**	**118,630**
West Germany	403	16,668
Japan	157	15,693
Switzerland	97	14,555
Taiwan	1,594	12,492
U.K.	662	11,625
Brazil	1,786	11,122
China	1,779	9,047
Korea	211	6,080
Poland	320	4,934
Yugoslavia	327	3,899
Singapore	308	3,888
France	48	1,899
Spain	124	1,639
Canada	118	1,161
India	89	938
Italy	33	842
Austria	194	794
Other Countries	138	1354
TOTAL MILLING MACHINES	**5,312**	**82,032**
Japan	166	17,426
Taiwan	1,922	13,480
Spain	1,571	12,709
West Germany	295	11,140
Italy	66	8,264
U.K.	217	6,193
China	830	3,855
Switzerland	35	2,354
Canada	13	1,644
Sweden	13	1,117
Other Countries	184	3,850

U.S. Imports of Machine Tools 1990* (continued)
By Type of Machine and Country of Origin
(Values in Thousands of U.S. Dollars)

	Units	Value
TOTAL MACHINING CENTERS	**3,021**	**399,902**
Japan	1,767	255,942
West Germany	209	71,296
U.K.	438	27,447
Taiwan	158	13,575
Singapore	151	8,354
Switzerland	8	3,775
Korea	58	3,280
Italy	29	3,148
Austria	27	2,613
Israel	58	2,577
Turkey	52	1,962
France	13	1,615
Sweden	4	1,314
Canada	13	1,166
Other Countries	36	1,838
TOTAL STATION TYPE	**172**	**82,841**
Japan	43	40,044
West Germany	41	23,167
Italy	20	5,556
Canada	11	4,788
Switzerland	24	4,381
Korea	26	2,896
Spain	1	1,413
U.K.	6	596
TOTAL METAL CUT. N.E.C.	**4,795**	**194,401**
Japan	1,436	97,818
West Germany	565	27,383
Switzerland	461	26,712
U.K.	228	16,075
Canada	339	4,531
France	115	3,638
Taiwan	409	3,591
Thailand	84	3,244
Italy	294	2,073
Austria	123	1,880
Netherlands	65	1,863
Denmark	54	1,093
Other Countries	622	4,500
TOTAL PUNCH. & SHEARING	**1,643**	**76,484**
Japan	330	29,959
West Germany	354	16,955
Switzerland	40	5,096
Canada	114	4,123
Belgium	138	4,103
Finland	16	3,343
Sweden	30	3,217
U.K.	199	2,694
Spain	186	2,412
Italy	103	2,286
France	5	482
Taiwan	39	479
Other Countries	89	1,335

	Units	Value
TOTAL BENDING & FORMING	**2,169**	**93,972**
Japan	441	23,721
Canada	603	21,287
West Germany	246	14,603
Sweden	128	11,156
U.K.	62	4,991
Italy	176	4,794
Belgium	71	3,189
Switzerland	33	2,306
France	78	1,901
New Zealand	3	1,375
Other Countries	328	4,649
TOTAL PRESSES	**3,527**	**124,008**
Japan	409	58,777
Canada	353	18,304
Sweden	69	16,468
West Germany	148	13,298
U.K.	152	4,815
Taiwan	1,261	3,861
Switzerland	91	2,862
Italy	170	2,278
Belgium	28	1,661
China	702	364
Other Countries	144	1320
TOTAL FORGING MACHINES	**988**	**64,475**
Japan	322	37,071
West Germany	118	8,216
Canada	162	4,381
Italy	48	4,167
Switzerland	19	3,507
Yugoslavia	34	2,140
U.K.	82	1,974
Belgium	1	1,273
Korea	14	470
Sweden	21	310
Other Countries	167	966
TOTAL METAL FORM. N.E.C.	**2,801**	**148,435**
Japan	1,099	60,228
West Germany	410	22,841
Italy	265	21,653
Canada	270	15,574
Switzerland	200	11,015
Belgium	177	8,743
U.K.	137	1,985
Spain	28	1,579
Taiwan	58	1,408
France	48	736
Sweden	17	640
Other Countries	92	2,033

*Includes new machines valued over $2,500 only
n.e.c. – not elsewhere classified

Source: U.S. Bureau of the Census

1990 EXPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 7,652,871	$ 6,824,218	12.14%	$115,565,907	$68,368,987	69.03%
West Germany	10,923,316	6,674,612	63.65	61,170,623	31,271,252	95.61
Mexico	4,851,748	3,150,475	54.00	54,628,588	60,249,643	-9.33
Korea	3,931,153	1,809,963	117.20	47,156,699	35,951,389	31.17
U.K.	3,139,208	3,851,180	-18.49	46,248,926	60,150,561	-23.11
Japan	2,419,240	6,389,031	-62.13	45,475,976	30,662,254	48.31
India	1,263,434	388,804	224.95	20,870,750	11,604,131	79.86
China	1,345,031	1,531,017	-12.15	20,536,729	29,050,641	-29.31
Belgium	1,516,194	739,907	104.92	20,115,392	7,625,552	163.79
Italy	1,942,326	1,727,507	12.44	19,031,887	14,764,203	28.91
Brazil	1,967,482	1,719,549	14.42	17,567,597	11,815,123	48.69
Australia	605,102	927,950	-34.79	15,732,098	11,154,135	41.04
Taiwan	352,464	785,165	-55.11	11,266,988	9,635,915	16.93
France	425,252	367,338	15.77	8,892,338	11,814,394	-24.73
Singapore	559,322	475,378	17.66	8,698,335	7,885,332	10.31
USSR	48,566	0	NA	7,910,069	20,924,509	-62.20
Venezuela	382,714	387,275	-1.18	7,232,310	5,531,090	30.76
Netherlands	188,400	278,855	-32.44	6,167,757	4,598,127	34.14
Spain	264,729	151,654	74.56	5,977,411	3,156,013	89.40
Switzerland	473,094	488,318	-3.12	5,727,837	4,005,926	42.98
Malaysia	153,842	55,880	175.31	2,487,036	999,925	148.72
Thailand	98,392	125,312	-21.48	2,271,462	2,635,100	-13.80
Austria	242,391	18,204	1,231.53	505,208	1,274,483	-60.36
Indonesia	98,045	39,890	145.79	443,344	4,154,910	-89.33

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 4,286,217	$ 4,684,944	-8.51%	$67,404,047	$42,395,988	58.99%
Mexico	4,921,040	3,698,221	33.07	54,694,307	47,026,289	16.31
Japan	5,585,156	2,385,961	134.08	38,197,786	47,479,555	-19.55
U.K.	1,959,190	3,753,115	-47.80	37,118,351	39,703,866	-6.51
Korea	1,662,738	4,017,788	-58.62	34,687,862	62,609,518	-44.60
West Germany	4,242,836	3,021,986	40.40	30,150,534	30,224,894	-0.25
France	1,115,918	1,860,493	-40.02	19,409,176	10,635,544	82.49
Taiwan	129,660	3,187,665	-95.93	16,981,361	22,572,731	-24.77
China	57,692	4,240,624	-98.64	16,731,782	11,699,617	43.01
Brazil	952,474	3,262,226	-70.80	10,186,175	9,365,132	8.77
Netherlands	957,957	1,393,026	-31.23	9,773,883	6,912,616	41.39
Italy	978,735	374,021	161.68	9,212,424	9,856,330	-6.53
Australia	1,230,709	146,570	739.67	7,408,897	7,093,745	4.44
Indonesia	183,753	168,030	9.36	6,924,490	234,046	2,858.60
India	147,137	510,118	-71.16	6,714,720	8,918,760	-24.71
Singapore	1,062,654	232,197	357.65	6,617,872	8,193,420	-19.23
Thailand	2,003,492	164,449	1,118.31	6,290,394	3,896,330	61.44
Spain	282,191	65,450	331.16	5,843,202	4,264,711	37.01
Malaysia	137,093	117,205	16.97	4,634,830	1,622,927	185.58
Switzerland	955,425	62,522	1,428.14	3,066,484	1,545,762	98.38
Belgium	158,587	22,465	605.93	2,757,980	4,787,224	-42.39
Venezuela	532,467	459,249	15.94	2,543,373	8,427,204	-69.82
Austria	44,031	118,758	-62.92	2,472,007	815,189	203.24
USSR	0	0	NA	732,665	976,510	-24.97

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Canada	$ 11,939,088	$ 11,509,162	3.74%	$182,969,954	$110,764,975	65.19%
Mexico	9,772,788	6,848,696	42.70	109,322,895	107,275,932	1.91
West Germany	15,166,152	9,696,598	56.41	91,321,157	61,496,146	48.50
Japan	8,004,396	8,774,992	-8.78	83,673,762	78,141,809	7.08
U.K.	5,098,398	7,604,295	-32.95	83,367,277	99,854,427	-16.51
Korea	5,593,891	5,827,751	-4.01	81,844,561	98,560,907	-16.96
China	1,402,723	5,771,641	-75.70	37,268,511	40,750,258	-8.54
France	1,541,170	2,227,831	-30.82	28,301,514	22,449,938	26.06
Taiwan	482,124	3,972,830	-87.86	28,248,349	32,208,646	-12.30
Italy	2,921,061	2,101,528	39.00	28,244,311	24,620,533	14.72
Brazil	2,919,956	4,981,775	-41.39	27,753,772	21,180,255	31.04
India	1,410,571	898,922	56.92	27,585,470	20,522,891	34.41
Australia	1,835,811	1,074,520	70.85	23,140,995	18,247,880	26.81
Belgium	1,674,781	762,372	119.68	22,873,372	12,412,776	84.27
Netherlands	1,146,357	1,671,881	-31.43	15,941,640	11,510,743	38.49
Singapore	1,621,976	707,575	129.23	15,316,207	16,078,752	-4.74
Spain	546,920	217,104	151.92	11,820,613	7,420,724	59.29
Venezuela	915,181	846,524	8.11	9,775,683	13,958,294	-29.97
Switzerland	1,428,519	550,840	159.33	8,794,321	5,551,688	58.41
USSR	48,566	0	NA	8,642,734	21,901,019	-60.54
Thailand	2,101,884	289,761	625.39	8,561,856	6,531,430	31.09
Indonesia	281,798	207,920	35.53	7,367,834	4,388,956	67.87
Malaysia	290,935	173,085	68.09	7,121,866	2,622,852	171.53
Austria	286,422	136,962	109.13	2,977,215	2,089,672	42.47

1990 IMPORTS

METAL CUTTING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$57,201,645	$54,217,386	5.50%	$ 852,567,316	$1,042,629,826	-18.23%
West Germany	25,911,876	11,750,266	120.52	313,039,506	271,243,476	15.41
Taiwan	9,290,443	7,982,282	16.39	126,215,640	132,119,795	-4.47
U.K.	9,245,378	7,550,073	22.45	104,992,789	80,672,504	30.15
Switzerland	11,168,038	8,874,600	25.84	95,371,153	86,971,215	9.66
Italy	4,211,825	1,207,665	248.76	55,015,819	52,075,831	5.65
Spain	1,236,388	2,155,630	-42.64	25,534,883	19,536,291	30.70
France	1,385,578	1,052,004	31.71	23,971,635	21,967,785	9.12
Canada	1,575,908	1,208,212	30.43	21,521,942	20,823,626	3.35
Singapore	957,092	1,416,334	-32.42	18,676,922	17,897,826	4.35
Korea	1,056,552	1,056,728	-0.02	18,129,055	27,662,004	-34.46
Sweden	813,101	1,688,656	-51.85	16,732,692	13,638,837	22.68
Brazil	427,190	339,618	25.79	12,703,745	7,416,472	71.29
Belgium	15,138	11,594	30.57	1,685,407	5,492,144	-69.31

METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$25,029,639	$27,258,114	-8.18%	$ 215,936,189	$ 294,529,172	-26.68%
West Germany	8,992,753	10,000,155	-10.07	81,024,617	67,484,629	20.06
Canada	5,708,660	8,181,981	-30.23	68,392,893	50,648,709	35.03
Italy	3,907,608	3,035,179	28.74	39,547,317	27,818,260	42.16
Sweden	1,448,440	1,928,016	-24.87	32,939,256	10,878,900	202.78
Switzerland	2,801,632	2,362,402	18.59	25,925,009	17,506,339	48.09
Belgium	749,165	499,046	50.12	20,764,178	22,676,544	-8.43
U.K.	3,752,869	1,721,034	118.06	18,185,562	16,792,646	8.29
Taiwan	508,435	237,720	113.88	8,914,627	9,355,056	-4.71
Spain	374,197	452,025	-17.22	4,355,372	3,093,689	40.78
France	282,990	144,674	95.61	3,666,728	1,796,023	104.16
Korea	104,969	122,809	-14.53	743,516	634,683	17.15
Singapore	311,286	42,065	640.01	485,931	862,449	-43.66
Brazil	2,500	0	NA	204,906	4,520,020	-95.47

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	DECEMBER	NOVEMBER	%CHANGE	DEC YTD'90	DEC YTD'89	%CHANGE
Japan	$82,231,284	$81,475,500	0.93%	$1,068,503,505	$1,337,158,998	-20.09%
West Germany	34,904,629	21,750,421	60.48	394,064,123	338,728,105	16.34
Taiwan	9,798,878	8,220,002	19.21	135,130,267	141,474,851	-4.48
U.K.	12,998,247	9,271,107	40.20	123,178,351	97,465,150	26.38
Switzerland	13,969,670	11,237,002	24.32	121,296,162	104,477,554	16.10
Italy	8,119,433	4,242,844	91.37	94,563,136	79,894,091	18.36
Canada	7,284,568	9,390,193	-22.42	89,914,835	71,472,335	25.80
Sweden	2,261,541	3,616,672	-37.47	49,671,948	24,517,737	102.60
Spain	1,610,585	2,607,655	-38.24	29,890,255	22,629,980	32.08
France	1,668,568	1,196,678	39.43	27,638,363	23,763,808	16.30
Belgium	764,303	510,640	49.68	22,449,585	28.168,688	-20.30
Singapore	1,268,378	1,458,399	-13.03	19,162,853	18,760,275	2.15
Korea	1,161,521	1,179,537	-1.53	18,872,571	28,296,687	-33.30
Brazil	429,690	339,618	26.52	12,908,651	11,936.492	8.14

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		NOVEMBER 1990		DECEMBER 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,218	13,541,688	6,399	11,915,072	4,220	9,811,078	5,617	9,821,987
Boring Machines	13	892,848	12	613,537	5	453,080	7	370,692
Drilling Machines	72	2,247,262	60	937,232	59	1,220,482	44	929,408
Gear Cutting Machines	16	8,205,773	33	4,217,786	24	4,326,960	24	6,435,136
Grinding Machines	412	8,753,533	346	10,933,219	399	10,473,970	391	11,084,336
Horizontal Lathes NC	29	3,059,742	25	2,408,221	26	2,776,395	29	3,450,520
Vertical Lathes NC	5	2,322,630	9	1,621,356	2	287,836	8	1,097,280
Lathes Non-NC	51	1,033,985	61	1,218,831	70	1,500,069	89	1,217,150
Milling Machines	38	5,262,002	51	2,190,381	21	1,976,806	37	987,344
Machining Centers	13	2,443,148	52	4,679,669	25	3,961,612	21	3,371,119
Station Type Machines	5	5,650,047	8	6,910,384	7	5,952,523	11	9,495,480
Other Metal Cutting	288	5,325,005	490	7,249,997	395	6,820,575	284	6,641,302
Punching & Shearing Machines	56	3,258,296	111	4,695,896	167	6,683,192	179	5,251,720
Bending & Forming Machines	165	8,316,381	139	6,554,180	139	6,281,392	177	8,308,327
Presses	126	5,543,751	89	4,543,803	113	11,284,355	132	9,144,740
Forging Machines	12	2,088,733	30	3,804,635	18	3,400,845	25	7,031,889
Other Metal Forming	168	8,580,087	241	8,430,558	232	9,985,194	241	7,635,732
TOTAL	6,687	86,524,911	8,156	84,924,757	5,922	87,196,364	7,316	92,274,162

PRODUCT TYPES	DEC'90 Y-T-D TOTALS		DECEMBER 1989		DEC'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	61,537	154,141,660	3,122	9,216,500	55,866	137,472,826
Boring Machines	154	15,807,631	8	1,268,274	251	15,595,047
Drilling Machines	974	17,997,565	62	731,257	753	16,929,726
Gear Cutting Machines	256	58,880,541	38	15,541,997	294	53,883,840
Grinding Machines	4,026	130,596,464	381	12,184,907	3,956	128,375,218
Horizontal Lathes NC	409	43,897,496	14	1,767,718	246	27,189,940
Vertical Lathes NC	72	13,149,920	2	299,840	20	2,849,164
Lathes Non-NC	790	16,879,868	47	1,070,817	518	13,098,404
Milling Machines	443	34,996,260	22	838,137	521	27,245,700
Machining Centers	388	56,616,369	37	3,741,018	380	45,735,981
Station Type Machines	82	51,075,333	3	5,017,482	56	31,713,100
Other Metal Cutting	4,077	78,434,452	222	4,519,217	2,440	57,326,748
Punching & Shearing Machines	1,569	65,370,582	128	5,143,232	1,267	57,419,645
Bending & Forming Machines	1,859	73,708,356	66	2,336,980	1,019	46,708,110
Presses	2,032	99,164,973	206	16,835,790	1,644	92,401,488
Forging Machines	360	51,209,594	37	3,439,617	802	41,121,248
Other Metal Forming	3,053	100,563,494	221	10,516,660	3,814	154,723,011
TOTAL	82,081	1,062,490,558	4,616	94,469,443	73,847	949,789,196

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE NOV 90' - DEC 90'		% CHANGE DEC 89' - DEC 90'		% CHANGE YTD 89' - YTD 90'	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	33.10	0.11	79.92	6.57	10.15	12.13
Boring Machines	40.00	-18.18	-12.50	-70.77	-38.65	1.36
Drilling Machines	-25.42	-23.85	-29.03	27.10	29.35	6.31
Gear Cutting Machines	0.00	48.72	-36.84	-58.60	-12.93	9.27
Grinding Machines	-2.01	5.83	2.62	-9.03	1.77	1.73
Horizontal Lathes NC	11.54	24.28	107.14	95.20	66.26	61.45
Vertical Lathes NC	300.00	281.22	300.00	265.96	260.00	361.54
Lathes Non-NC	27.14	-18.86	89.36	13.67	52.51	28.87
Milling Machines	76.19	-50.05	68.18	17.80	-14.97	28.45
Machining Centers	-16.00	-14.91	-43.24	-9.89	2.11	23.79
Station Type Machines	57.14	59.52	266.67	89.25	46.43	61.05
Other Metal Cutting	-28.10	-2.63	27.93	46.96	67.09	36.82
Punching & Shearing Machines	7.19	-21.42	39.84	2.11	23.84	13.85
Bending & Forming Machines	27.34	32.27	168.18	255.52	82.43	57.81
Presses	16.81	-18.96	-35.92	-45.68	23.60	7.32
Forging Machines	38.89	106.77	-32.43	104.44	-55.11	24.53
Other Metal Forming	3.88	-23.53	9.05	-27.39	-19.95	-35.00
TOTAL	23.54	5.82	58.49	-2.32	11.15	11.87

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER 1990		OCTOBER 1990		NOVEMBER 1990		DECEMBER 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	78,484	11,149,478	123,375	18,144,453	81,074	10,309,845	81,837	15,246,777
Boring Machines	52	3,494,230	67	6,367,793	80	2,589,433	54	4,190,094
Drilling Machines	49	2,266,373	133	5,115,447	83	2,416,938	115	1,602,810
Gear Cutting Machines	69	4,625,890	24	9,163,879	40	3,791,633	53	6,613,058
Grinding Machines	616	25,521,740	728	22,115,629	553	16,903,675	626	34,357,642
Horizontal Lathes NC	194	20,111,149	236	24,077,544	126	12,878,638	114	13,105,549
Vertical Lathes NC	4	689,943	10	3,183,656	20	4,701,725	4	419,200
Lathes Non-NC	500	7,286,875	883	10,701,325	671	7,463,658	724	12,100,861
Milling Machines	363	7,383,527	368	6,724,436	432	6,210,377	357	3,618,186
Machining Centers	147	27,592,987	256	30,295,646	168	23,710,026	214	29,511,442
Station Type Machines	14	14,932,439	13	10,334,968	10	3,075,052	11	2,388,079
Other Metal Cutting	233	14,697,321	301	20,848,312	418	15,404,784	352	14,550,273
Punching & Shearing Machines	103	4,806,367	96	7,464,655	148	10,520,914	81	3,226,303
Bending & Forming Machines	161	5,831,579	140	9,706,668	167	8,328,936	135	6,615,138
Presses	416	10,399,978	225	5,254,258	103	18,034,029	171	19,020,684
Forging Machines	144	8,927,234	57	3,756,734	68	3,402,818	80	7,190,174
Other Metal Forming	204	10,822,213	259	16,246,525	214	15,792,641	267	14,347,226
TOTAL	81,753	180,539,323	127,171	209,501,928	84,375	165,535,122	85,195	188,103,496

PRODUCT TYPES	DEC'90 Y-T-D TOTALS		DECEMBER 1989		DEC'89 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	972,443	157,204,064	57,233	11,578,118	747,774	160,358,711
Boring Machines	662	44,547,286	33	2,375,161	827	57,094,326
Drilling Machines	1,442	43,700,697	101	6,664,794	1,781	74,104,047
Gear Cutting Machines	526	56,794,974	89	5,929,864	748	45,476,896
Grinding Machines	8,449	300,118,744	714	20,669,640	8,105	273,600,497
Horizontal Lathes NC	2,941	289,649,142	285	27,365,253	4,139	377,912,511
Vertical Lathes NC	175	27,887,284	20	9,235,558	156	30,782,665
Lathes Non-NC	8,388	118,630,185	487	7,560,417	5,559	90,292,335
Milling Machines	5,312	82,032,330	478	5,821,671	6,182	112,467,058
Machining Centers	3,021	399,901,806	325	33,036,088	3,810	410,505,672
Station Type Machines	172	82,841,076	11	2,291,631	193	55,003,313
Other Metal Cutting	4,795	194,400,896	392	25,077,045	4,950	195,793,229
Punching & Shearing Machines	1,643	76,484,396	164	4,771,936	1,800	75,266,818
Bending & Forming Machines	2,169	93,971,772	147	8,320,878	2,513	94,416,732
Presses	3,527	124,007,535	253	6,745,625	1,971	142,782,304
Forging Machines	988	64,475,469	93	11,837,768	1,554	93,119,444
Other Metal Forming	2,801	148,435,400	153	9,761,291	5,747	117,672,309
TOTAL	1,019,454	2,305,083,056	60,978	199,042,738	797,809	2,406,648,867

1990 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE NOV'90 - DEC'90		% CHANGE DEC'89 - DEC'90		% CHANGE YTD'89 - YTD'90	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	0.94	47.89	42.99	31.69	30.05	-1.97
Boring Machines	-32.50	61.82	63.64	76.41	-19.95	-21.98
Drilling Machines	38.55	-33.68	13.86	-75.95	-19.03	-41.03
Gear Cutting Machines	32.50	74.41	-40.45	11.52	-29.68	24.89
Grinding Machines	13.20	103.26	-12.32	66.22	4.24	9.69
Horizontal Lathes NC	-9.52	1.76	-60.00	-52.11	-28.94	-23.36
Vertical Lathes NC	-80.00	-91.08	-80.00	-95.46	12.18	-9.41
Lathes Non-NC	7.90	62.13	48.67	60.06	50.89	31.38
Milling Machines	-17.36	-41.74	-25.31	-37.85	-14.07	-27.06
Machining Centers	27.38	24.47	-34.15	-10.67	-20.71	-2.58
Station Type Machines	10.00	-22.34	0.00	4.21	-10.88	50.61
Other Metal Cutting	-15.79	-5.55	-10.20	-41.98	-3.13	-0.71
Punching & Shearing Machines	-45.27	-69.33	-50.61	-32.39	-8.72	1.62
Bending & Forming Machines	-19.16	-20.58	-8.16	-20.50	-13.69	-0.47
Presses	66.02	5.47	-32.41	181.97	78.94	-13.15
Forging Machines	17.65	111.30	-13.98	-39.26	-36.42	-30.76
Other Metal Forming	24.77	-9.15	74.51	46.98	-51.26	26.14
TOTAL	0.97	13.63	39.71	-5.50	27.78	-4.22

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

RELEASED: February 27, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	92	7923	16	1636
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	81	14083	7	838
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(2[illegible])	19	4543	0	0
100035	Horiz. mach. ctrs., ATC	54	14676	7	1990
100045	Machining centers, n.e.c.	234	23314	7	543
200010	Unit construction mach. (single station transfer), NC	2	230	0	0
200090	Unit construction mach. (single station transfer), non-NC	9	4870	2	1401
300010	Multi-station transfer machines, NC	21	33589	6	7673
300090	Multi-station transfer machines, non-NC	24	5959	0	0
8458110010	Horizontal lathes, multiple spindle, NC	25	5881	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	294	23157	20	2105
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	68	9273	8	1102
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5587	1	243
190030	Horizontal engine or toolroom lathes, non-NC	117	2020	9	152
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	532	1	12
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	57	2883	2	28
190090	Horizontal lathes, n.e.c., non-NC	454	5641	48	458
911060	Vertical turret lathes, multiple spindle, NC	4	1255	0	0
911080	Vertical turret lathes, n.e.c., NC	6	1443	1	650
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	47	9105	7	447
991050	Vertical turret lathes, non-NC	61	1247	24	437
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	4557	5	130
8459100000	Way-type unit head machines	26	6427	3	421
210080	Other drilling machines, NC	101	9039	10	591
290040	Drilling machines, multiple spindle, non-NC	33	1704	0	0
290050	Drilling machines, radial, non-NC	21	209	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	103	2192	3	135
290090	Drilling machines, n.e.c., non-NC	716	4854	31	203
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling machines, n.e.c., NC	20	1155	1	33
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	1139	2	242
400040	Boring machines, vertical, NC	8	2483	0	0
400050	Boring machines, vertical, non-NC	44	1451	3	57
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	31	1502	1	39
510080	Milling machines, knee type, NC	22	2273	1	73
590030	Milling machines, knee type, non-NC	124	4402	12	325
610080	Milling machines, excl. knee type, n.e.c., NC	59	20911	1	281
690050	Milling machines, profile, dup., or die sinking, non-NC	26	555	3	22
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	210	6567	20	287
700020	Threading or tapping machines, n.e.c., NC	41	1577	4	81
700080	Threading or tapping machines, n.e.c., non-NC	726	6580	25	505
8460110080	Flat surface grinding mach., NC	86	9339	6	763
190010	Flat surface grinding mach., recip.-table type, non-NC	59	1040	5	94
190050	Flat surface grinding mach., n.e.c., non-NC	39	7902	7	1090
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	112	32263	11	3433
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	53	6269	2	121
290030	Grinding mach., internal cylindrical, non-NC	53	3594	7	271
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	384	15639	27	1228
310080	Sharpening machines (tool & cutter grinding), NC	49	4252	1	40
390050	Sharpening machines (tool & cutter grinding), non-NC	1084	14729	105	946
400060	Honing or lapping machines, NC	4	827	1	209
400080	Honing or lapping machines, non-NC	893	14609	101	1213
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	1402	11	375
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1190	18731	107	1302
8461100060	Planing machines, NC	6	788	0	0
100080	Planing machines, non-NC	279	7445	10	242
200010	Shaping or slotting machines, NC	9	365	0	0
200090	Shaping or slotting machines, non-NC	38	1168	0	0
300060	Broaching machines, NC	13	1600	0	0
300080	Broaching machines, non-NC	28	2066	2	654
401050	Gear hobbers	42	5758	6	830
401070	Gear shapers	51	7000	4	399
401090	Gear cutting machines, n.e.c.	96	40356	9	3951
405060	Gear grinding or finishing machines	67	5766	5	1255
500050	Sawing or cutting-off machines, NC	123	4492	10	316
500090	Sawing or cutting-off machines, non-NC	1466	19230	117	1510
9000000001	Metal cutting machine tools, n.e.c.	1256	25202	100	1698
9800000001	Used or rebuilt machine tools	5007	58208	288	2525
9900000001	Machine tools valued at less than $2,500	39124	23482	3857	1699
	Cutting Total			5090	49304
	Y-T-D Cutting Total	55802	600022		
	NC Y-T-D Cutting Total*	1812	259312		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - December 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	3	555
8457100015	0	0	0	0	3	406	0	0	2	251
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	3	832	0	0	1	156
100045	0	0	0	0	0	0	0	0	2	165
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	105	0	0	3	261	0	0	3	699
110050	0	0	0	0	0	0	0	0	6	672
110090	0	0	0	0	0	0	0	0	0	0
190030	2	8	0	0	0	0	0	0	2	44
190050	0	0	0	0	0	0	0	0	1	12
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	126
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	7	447	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	20	2	70
8459100000	0	0	0	0	0	0	3	421	0	0
210080	0	0	0	0	0	0	0	0	6	359
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	11	97
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	143	1	98
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	39
510080	0	0	0	0	0	0	0	0	1	73
590030	3	82	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	51
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	3	0	0	7	29
8460[illegible]080	0	0	0	0	0	0	1	19	1	519
190010	0	0	0	0	0	0	0	0	5	94
190050	0	0	0	0	0	0	0	0	5	322
210080	0	0	0	0	0	0	0	0	2	795
290010	0	0	0	0	0	0	0	0	2	121
290030	0	0	0	0	0	0	7	271	0	0
290050	0	0	1	200	0	0	0	0	2	31
310080	0	0	0	0	0	0	0	0	0	0
390050	5	239	0	0	0	0	29	184	10	79
400060	0	0	0	0	0	0	0	0	1	209
400080	0	0	1	19	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	7	0	0	1	12	14	87
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	12	1	747
500050	0	0	0	0	0	0	0	0	4	94
500090	0	0	0	0	0	0	0	0	8	110
9000000001	0	0	0	0	0	0	7	426	8	56
9800000001	8	138	0	0	2	11	0	0	40	627
9900000001	108	33	23	17	5	4	20	13	229	267
Month Tot	128	605	26	242	17	1516	78	1967	388	7653
Y-T-D Tot	1788	15732	181	505	722	20115	770	17568	6270	115566
MC YTD Tot*	20	7243	1	23	155	17527	49	5715	391	63423

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	171	2	101	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	3
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	650
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	2	152	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	8	1	25	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	281
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	41
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	5	972	0	0	2	770	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	23	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	45	0	0	0	0	0	0	5	64
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	5	101	0	0	0	0	1	16
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	4
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	1	699
405060	0	0	0	0	1	459	0	0	0	0
500050	0	0	0	0	0	0	1	62	0	0
500090	0	0	2	14	1	10	0	0	1	24
9000000001	2	5	0	0	0	0	2	25	9	46
9800000001	0	0	8	153	0	0	2	8	3	85
9900000001	0	0	39	25	0	0	2	3	46	29
Month Tot	12	1345	61	425	5	1263	7	98	71	1942
Y-T-D Tot	253	20537	1168	6892	786	20871	191	443	1709	19032
NC YTD Tot*	72	13405	55	3817	32	10473	1	62	57	6646

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	71	1	156	0	0	4	474	0	0
8457100015	0	0	1	88	1	93	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	2	602	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	222	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	2	1401	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	78	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	431	0	0
110090	0	0	0	0	0	0	1	243	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	14	220	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	9	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	43	0	0	0	0	1	37	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	10	43	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	45	0	0	1	17	1	22	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	5	76	1	21	0	0	8	97	0	0
700020	0	0	0	0	0	0	2	20	0	0
700080	0	0	0	0	0	0	3	14	0	0
8460110080	0	0	0	0	0	0	1	70	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	217	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	130	0	0	0	0	10	264	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	33	261	1	4	6	36	4	27	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	96	41	429	0	0	1	3	2	31
900060	0	0	0	0	0	0	0	0	0	0
900080	2	27	2	13	1	8	13	247	2	14
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	70	4	99	0	0	2	47	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	2	336	0	0	0	0	1	28	0	0
401090	0	0	6	2673	0	0	0	0	0	0
405060	1	27	0	0	0	0	1	11	0	0
500050	1	61	0	0	0	0	0	0	0	0
500090	7	32	2	23	0	0	7	73	12	93
9000000001	4	15	1	6	0	0	5	29	1	27
9800000001	2	69	7	144	0	0	73	662	3	8
9900000001	488	163	497	276	0	0	1260	157	28	16
Month Tot	556	2419	564	3931	9	154	1430	4852	48	188
Y-T-D Tot	4635	45476	2798	47157	412	2487	11322	54629	582	6168
NC YTD Tot*	144	15305	62	12687	3	224	190	14954	11	915

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	2	47	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	9	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	99	0	0	0	0	0	0	1	28
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	169	5	168	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	4	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	13	184	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	15	0	0	9	102	5	54	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	4	100	0	0	0	0
500090	5	74	3	40	0	0	0	0	5	27
9000000001	4	117	0	0	1	9	5	206	2	36
9800000001	0	0	0	0	18	47	0	0	0	0
9900000001	50	76	69	52	48	31	176	45	5	8
Month Tot	65	559	78	265	93	473	188	352	13	98
Y-T-D Tot	1964	8698	750	5977	1091	5728	1022	11267	432	2271
NC YTD Tot*	19	2489	43	1637	9	1530	25	5599	6	320

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	7	380	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	400	0	0
100045	2	156	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	6	7673	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	4	354	0	0	1	86	0	0	3	250
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	53	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	2	28
190090	13	47	0	0	0	0	0	0	15	54
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	23	428	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	40
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	1	10	0	0	2	125
290090	0	0	0	0	0	0	0	0	7	30
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	33
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	3	57
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	31
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	3	22	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	27	0	0	0	0	0	0	2	15
700020	2	61	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	232	0	0	12	228
8460110080	0	0	0	0	0	0	0	0	2	113
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	550	0	0
210080	1	343	0	0	0	0	0	0	1	554
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	3	106	0	0	0	0	4	160	0	0
310080	0	0	0	0	0	0	0	0	1	40
390050	0	0	0	0	0	0	10	69	3	19
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	27	243	8	100
900060	0	0	0	0	0	0	0	0	11	375
900080	7	61	0	0	2	13	4	120	37	405
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	2	22
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	654
401050	0	0	0	0	0	0	3	159	3	672
401070	0	0	0	0	0	0	1	36	0	0
401090	0	0	0	0	0	0	2	579	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	56	863	0	0	0	0	2	57	6	70
9000000001	25	485	0	0	0	0	12	75	12	134
9800000001	17	64	19	49	0	0	47	301	39	159
9900000001	153	92	0	0	129	42	157	100	325	252
Month Tot	310	3139	19	49	135	383	287	10923	502	4460
Y-T-D Tot	4208	46249	57	7910	1127	7232	3214	61171	8350	48341
NC YTD Tot*	220	28871	0	0	14	1230	77	29878	156	15339

Please see notes on last page of the metal forming section.

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RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	365	8996	51	771
8462100030	Headers and upsetters, including cold headers	61	23979	8	5454
100050	Forging or die stamping machines, and hammers, n.e.c.	299	27231	17	1578
210080	Bending, folding, straight. or flat. mach., incl presses, NC	390	36209	68	5460
290030	Press brakes, non-NC	158	3793	10	159
290040	Bending rolls, non-NC	102	3209	27	775
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1209	30498	72	1915
310080	Shearing machines, NC	92	7790	8	448
390050	Shearing machines, non-NC	424	9685	52	509
410080	Punching or notching mach., incl. comb. punch & shear, NC	172	26135	13	2555
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	881	21760	106	1740
910060	Hydraulic presses, NC	84	4935	5	115
910090	Hydraulic presses, non-NC	581	27848	30	2194
990030	Presses, n.e.c., NC	147	12730	7	1078
990040	Presses, mechanical, non-NC	108	12548	8	1349
990060	Presses, n.e.c., non-NC	1112	41104	82	4408
8463100080	Draw benches for bars, tubes, profiles, wire or the like	242	6670	27	319
200080	Thread rolling machines	60	2726	6	187
300080	Machines for working wire	750	23651	69	2717
900080	Metal forming machine tools, n.e.c.	1636	58520	88	3642
9800000002	Used or rebuilt machine tools	3242	61461	178	4639
9900000002	Machine tools valued at less than $2,500	14164	10991	1294	958
	Forming Total			2226	42970
	Y-T-D Forming Total	26279	462469		
	NC Y-T-D Forming Total	885	87799		
	Cutting and Forming Totals:				
	Monthly Total			7316	92274
	Y-T-D Total	82081	1062491		
	NC Y-T-D Total*	2697	347111		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	722127	0	58324
2000000000	Parts for working rubber or plastics - heading 8477	0	282599	0	22830
2710003070	Quenching or cutting oils	0	18520	0	402
8428900010	Industrial robots for lifting, handling, loading or unload	360	6637	42	210
8431390090	Parts industrial robots, handling and loading - heading 8428	0	74510	0	5068
8456100000	Laser, light or photon beam for working any material	933	46118	72	3128
200000	Ultrasonic process for working any material	77	1915	5	87
8477106010	Injection molding mach., for rubber or oth. thermosetting	305	21848	31	2822
106070	Injection molding mach., for thermoplastics	423	54100	37	7208
200010	Extruders for rubber or other thermosetting materials	352	16584	23	1246
200050	Extruders for processing thermoplastics	845	41527	52	1864
300000	Blow molding machines	557	43754	49	4207
400000	Vacuum-molding and other thermoforming machines	4713	13781	70	548
510010	Machines for molding or retreading pneumatic tires	1522	20511	77	1045
510090	Machines for molding or otherwise forming inner tubes	449	29446	59	1047
590000	Machines for molding or otherwise forming n.e.c.	1467	23546	149	1623
800000	Machines for working rubber or plastics n.e.c.	5684	109676	663	7767
8479899040	Industrial robots, n.e.c.	6146	58292	828	6595
908040	Industrial robot parts	0	27524	0	1660
8537100030	Numerical controls for controlling machine tools	1937	28709	106	1483
9024100000	Machines and appliances for testing metals	0	75730	0	6140
9031100000	Machines for balancing mechanical parts	0	28815	0	2446
300000	Profile projectors	0	6956	0	272
9032810040	Industrial process control instr., hydraulic or pneumatic	805728	59130	60848	3339

Note: Product code 1000000000 represents aggregated machine tool parts codes 846[illegible]100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	7	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	5	565	1	356
210080	1	63	0	0	0	0	0	0	4	256
290030	0	0	0	0	0	0	0	0	7	56
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	111	25	688
310080	0	0	0	0	0	0	0	0	1	111
390050	0	0	0	0	0	0	0	0	14	170
410080	1	31	0	0	0	0	0	0	3	70
490050	0	0	0	0	0	0	0	0	42	394
910060	0	0	0	0	0	0	0	0	0	0
910090	1	149	0	0	0	0	0	0	6	542
990030	2	106	0	0	0	0	0	0	1	261
990040	0	0	0	0	0	0	0	0	0	0
990060	3	76	0	0	0	0	3	156	12	144
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	68	4	92
300080	0	0	0	0	2	133	5	34	12	551
900080	22	500	0	0	0	0	0	0	8	85
9800000002	14	249	2	44	0	0	1	14	23	396
9900000002	138	51	0	0	54	26	6	5	101	116
Month Tot	183	1231	2	44	56	159	25	952	264	4286
Y-T-D Tot	643	7409	71	2472	635	2758	639	10186	4209	67404
NC YTD Tot	32	2179	0	0	0	0	10	804	169	20968
C&F Month	311	1836	28	286	73	1675	103	2920	652	11939
C&F Y-T-D	2431	23141	252	2977	1357	22873	1409	27754	10479	182970
C&F NC YTD*	52	9422	1	23	155	17527	59	6519	560	84392
Other Manufacturing Technology										
1000000000	0	823	0	108	0	744	0	1508	0	10205
2000000000	0	1946	0	75	0	319	0	717	0	5583
2710003070	0	36	0	0	0	0	0	9	0	48
8428900010	0	0	0	0	0	0	0	0	16	156
8431390090	0	335	0	0	0	23	0	11	0	732
8456100000	0	0	0	0	0	0	0	0	3	410
200000	0	0	0	0	0	0	1	20	0	0
8477106010	0	0	0	0	0	0	0	0	2	328
106070	0	0	1	79	0	0	0	0	20	5599
200010	0	0	0	0	0	0	7	176	15	369
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	23	235
510010	1	36	0	0	15	41	1	29	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	25	0	0	0	0	2	103
800000	10	280	0	0	11	68	14	731	63	1069
8479899040	0	0	0	0	9	54	0	0	593	3557
908040	0	17	0	0	0	0	0	0	0	363
8537100030	0	0	1	19	0	0	0	0	2	26
9024100000	0	141	0	181	0	12	0	23	0	1572
9031100000	0	0	0	0	0	0	0	82	0	856
300000	0	0	0	0	0	0	0	26	0	11
9032810040	567	70	189	92	250[illegible]	125	47	20	2025	352

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	5	15	11	4	38	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	53	3	273	0	0	3	122	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	2	111
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	1	833
990030	0	0	3	630	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	23	0	0	1	15
8463100080	0	0	1	19	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	6	142	0	0	0	0	1	7
900080	0	0	0	0	3	83	0	0	0	0
9800000002	0	0	0	0	0	0	6	62	0	0
9900000002	0	0	46	41	4	4	0	0	13	13
Month Tot	2	58	74	1116	12	147	9	184	18	979
Y-T-D Tot	414	16732	692	19409	423	6715	267	6924	331	9212
NC YTD Tot	21	4945	49	5171	0	0	4	701	11	1432
C&F Month	14	1403	135	1541	17	1411	16	282	89	2921
C&F Y-T-D	667	37269	1860	28302	1209	27585	458	7368	2040	28244
C&F NC YTD*	93	18349	104	8988	32	10473	5	763	68	8077

Other Manufacturing Technology

1000000000	0	736	0	1331	0	533	0	60	0	1497
2000000000	0	18	0	411	0	155	0	95	0	354
2710003070	0	0	0	0	0	32	0	0	0	11
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	12	0	251	0	13	0	33	0	4
8456100000	1	293	0	0	0	0	0	0	0	0
200000	0	0	2	34	0	0	0	0	0	0
8477106010	0	0	1	26	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	1	106	0	0	1	432	0	0
300000	0	0	1	1116	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	3	26	17	420	0	0	0	0
510090	0	0	0	0	0	0	0	0	1	40
590000	0	0	4	60	0	0	0	0	3	31
800000	278	2119	1	55	23	354	0	0	0	0
8479899040	2	85	13	575	0	0	0	0	6	38
908040	0	0	0	58	0	0	0	0	0	0
8537100030	0	0	11	142	0	0	0	0	7	96
9024100000	0	18	0	188	0	0	0	11	0	67
9031100000	0	0	0	0	0	233	0	0	0	36
300000	0	0	0	0	0	0	0	0	0	4
9032810040	145	63	1659	79	0	0	0	0	655	83

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	8	90	9	96	1	10
8462100030	2	3120	0	0	0	0	0	0	0	0
100050	0	0	6	345	0	0	2	109	0	0
210080	0	0	0	0	0	0	6	337	0	0
290030	0	0	0	0	0	0	1	33	0	0
290040	8	140	0	0	0	0	1	10	0	0
290050	2	38	1	9	0	0	13	177	0	0
310080	4	220	0	0	0	0	3	117	0	0
390050	3	56	0	0	0	0	5	68	0	0
410080	1	24	0	0	0	0	3	757	4	792
490050	0	0	2	65	0	0	16	306	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	24	0	0	16	373	1	134
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	1	52	0	0
990060	10	337	1	280	0	0	28	489	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	5	102	8	248	0	0	4	34	0	0
900080	16	1296	12	314	2	47	7	71	0	0
9800000002	9	186	17	350	0	0	52	1726	0	0
9900000002	165	66	43	28	0	0	195	166	24	21
Month Tot	225	5585	91	1663	10	137	362	4921	30	958
Y-T-D Tot	1971	38198	789	34688	114	4635	5603	54694	426	9774
NC YTD Tot	38	3831	50	4118	18	989	123	7345	59	6051
C&F Month	781	8004	655	5594	19	291	1792	9773	78	1146
C&F Y-T-D	6606	83674	3587	81845	526	7122	16925	109323	1008	15942
C&F NC YTD*	182	19136	112	16806	21	1213	313	22298	70	6965

Other Manufacturing Technology

1000000000	0	4968	0	3683	0	441	0	3773	0	2286
2000000000	0	483	0	978	0	276	0	1420	0	62
2710003070	0	17	0	0	0	0	0	65	0	3
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	140	0	130	0	0	0	316	0	117
8456100000	37	1045	0	0	0	0	1	25	1	13
200000	1	17	0	0	0	0	0	0	0	0
8477106010	1	38	0	0	0	0	19	1903	0	0
106070	2	526	0	0	0	0	9	445	0	0
200010	1	700	0	0	0	0	0	0	0	0
200050	4	82	0	0	3	65	16	552	1	9
300000	2	561	0	0	0	0	26	940	0	0
400000	16	20	1	7	0	0	5	17	0	0
510010	13	11	0	0	1	28	6	89	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	27	474	0	0	0	0	18	298	18	300
800000	1	3	5	299	80	515	29	554	9	40
8479899040	12	105	0	0	1	3	4	220	0	0
908040	0	668	0	11	0	0	0	0	0	0
8537100030	2	25	9	125	2	22	2	20	0	0
9024100000	0	1016	0	427	0	0	0	133	0	83
9031100000	0	0	0	369	0	0	0	77	0	0
300000	0	12	0	26	0	0	0	0	0	0
9032810040	2039	146	1463	82	9	7	629	150	10606	533

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	472	0	0	0	0	1	36	0	0
8462100030	0	0	0	0	2	200	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	1600
290030	0	0	0	0	0	0	0	0	0	0
290040	4	180	0	0	0	0	0	0	0	0
290050	0	0	1	36	3	39	1	13	1	23
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	4	20	87
410080	0	0	0	0	0	0	0	0	0	0
490050	2	15	0	0	0	0	0	0	6	67
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	1	72	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	2	74	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	577	0	0	0	0
8463100080	0	0	23	233	3	67	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	13	0	0	1	76
900080	1	119	0	0	0	0	0	0	0	0
9800000002	3	154	1	14	0	0	0	0	6	143
9900000002	56	49	0	0	68	58	6	5	10	8
Month Tot	78	1063	25	282	80	955	10	130	46	2003
Y-T-D Tot	590	6618	177	5843	431	3066	423	16981	256	6290
NC YTD Tot	7	746	25	499	2	65	29	1869	6	1755
C&F Month	143	1622	103	547	173	1429	198	482	59	2102
C&F Y-T-D	2554	15316	927	11821	1522	8794	1445	28248	688	8562
C&F NC YTD*	26	3235	68	2136	11	1596	54	7468	12	2074

Other Manufacturing Technology

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	2210	0	305	0	902	0	596	0	388
2000000000	0	758	0	49	0	174	0	1017	0	767
2710003070	0	7	0	0	0	0	0	59	0	0
8428900010	0	0	0	0	2	3	0	0	0	0
8431390090	0	71	0	6	0	0	0	198	0	4
8456100000	0	0	0	0	2	119	3	512	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	6	0	0	0	0	2	50	0	0
300000	0	0	0	0	1	101	0	0	0	0
400000	0	0	0	0	0	0	14	123	2	45
510010	1	14	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	15	7
590000	16	23	5	33	0	0	1	18	0	0
800000	31	36	0	0	0	0	1	30	0	0
8479899040	1	11	0	0	8	96	0	0	0	0
908040	0	8	0	114	0	12	0	3	0	0
8537100030	1	8	0	0	0	0	0	0	1	19
9024100000	0	68	0	42	0	27	0	355	0	0
9031100000	0	213	0	0	0	0	0	109	0	0
300000	0	4	0	0	0	0	0	0	0	0
9032810040	4588	352	116	16	424	40	519	27	25662	77

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	6
8462100030	0	0	0	0	0	0	2	668	2	1466
100050	0	0	0	0	0	0	2	128	1	75
210080	1	186	0	0	0	0	0	0	54	3018
290030	0	0	0	0	0	0	0	0	2	70
290040	0	0	0	0	0	0	0	0	14	445
290050	4	86	0	0	0	0	3	87	7	161
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	103	1	7	1	16
410080	0	0	0	0	0	0	0	0	1	883
490050	3	21	0	0	0	0	3	88	30	673
910060	1	22	0	0	0	0	2	56	2	37
910090	1	19	0	0	0	0	0	0	2	48
990030	0	0	0	0	0	0	0	0	1	81
990040	3	1130	0	0	0	0	2	94	0	0
990060	1	195	0	0	0	0	18	1666	3	451
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	1	26
300080	1	26	0	0	0	0	15	780	6	570
900080	5	123	0	0	2	118	6	90	4	794
9800000002	2	30	0	0	2	311	9	540	31	423
9900000002	144	122	0	0	0	0	45	38	176	143
Month Tot	166	1959	0	0	11	532	108	4243	339	9383
Y-T-D Tot	2092	37118	22	733	316	2543	1499	30151	3246	61914
NC YTD Tot	64	6743	1	136	5	459	16	1756	146	15238
C&F Month	476	5098	19	49	146	915	395	15166	841	13843
C&F Y-T-D	6300	83367	79	8643	1443	9776	4713	91321	11596	110255
C&F NC YTD*	284	35614	1	136	19	1689	93	31633	302	30578

Other Manufacturing Technology

1000000000	0	3521	0	2233	0	701	0	6891	0	7883
2000000000	0	2141	0	34	0	521	0	1336	0	3142
2710003070	0	0	0	0	0	0	0	13	0	102
8428900010	22	22	0	0	0	0	0	0	1	14
8431390090	0	155	0	0	0	457	0	620	0	1441
8456100000	5	157	0	0	0	0	5	202	14	352
200000	0	0	0	0	0	0	0	0	1	15
8477106010	1	87	0	0	0	0	0	0	7	439
106070	2	186	0	0	0	0	0	0	3	374
200010	0	0	0	0	0	0	0	0	0	0
200050	4	34	0	0	0	0	1	120	18	409
300000	14	1414	0	0	0	0	0	0	5	75
400000	1	35	0	0	0	0	7	61	1	5
510010	0	0	0	0	0	0	0	0	19	351
510090	0	0	0	0	0	0	0	0	43	1000
590000	3	88	0	0	0	0	6	96	45	76
800000	30	402	0	0	2	40	30	419	45	754
8479899040	23	459	0	0	0	0	126	1073	30	321
908040	0	109	0	0	0	43	0	195	0	58
8537100030	24	416	0	0	0	0	26	340	18	225
9024100000	0	858	0	0	0	13	0	522	0	385
9031100000	0	0	0	0	0	107	0	54	0	311
300000	0	110	0	0	0	0	0	32	0	47
9032810040	1909	241	0	0	359	24	2475	205	2262	554

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	16	166	16	166
Denmark	1	33	9	166	10	199
East Germany	0	0	0	0	0	0
Finland	11	12	13	54	24	66
Greece	2	131	4	3	6	135
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	36	109	1	25	37	134
Luxembourg	0	0	7	6	7	6
Norway	0	0	0	0	0	0
Poland	12	930	0	0	12	930
Portugal	2	27	0	0	2	27
Romania	0	0	2	131	2	131
Sweden	138	736	50	739	188	1475
Turkey	1	3	4	3	5	6
Yugoslavia	0	0	1	6	1	6
Oth Europe	0	0	0	0	0	0
TOTAL	1213	21145	666	11995	1879	33140
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	3	6	4	74	7	80
Dominican Rep	0	0	4	66	4	66
El Salvador	0	0	1	9	1	9
Guatemala	0	0	3	34	3	34
Haiti	0	0	0	0	0	0
Honduras	0	0	1	21	1	21
Jamaica	0	0	0	0	0	0
Panama	2	28	16	14	18	42
Trinidad	1	164	0	0	1	164
Oth N & C Am.	15	54	1	7	16	60
TOTAL	1839	12757	656	9431	2495	22187
SOUTH AMERICA						
Argentina	5	335	1	883	6	1218
Bolivia	0	0	1	6	1	6
Chile	52	85	2	1466	54	1551
Colombia	2	28	23	13	25	41
Ecuador	5	54	1	6	6	60
Paraguay	0	0	0	0	0	0
Peru	3	26	1	15	4	40
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	280	2879	65	3872	345	6750
OCEANIA						
New Zealand	0	0	7	91	7	91
Oth Oceania	0	0	0	0	0	0
TOTAL	128	605	190	1322	318	1927

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	36	82	50	411	86	493
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	54	374	6	208	60	582
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	4	44	4	44
Philippines	22	40	49	2684	71	2725
Qatar	0	0	0	0	0	0
Saudi Arabia	10	85	28	1382	38	1467
Sri Lanka	7	7	0	0	7	7
Syria	0	0	0	0	0	0
United Arab Emr	2	43	0	0	2	43
Vietnam	0	0	0	0	0	0
Oth Asia	1	11	1	81	2	92
TOTAL	1551	10863	621	15780	2172	26643
AFRICA						
Algeria	0	0	2	429	2	429
Botswana	0	0	0	0	0	0
Egypt	17	754	3	86	20	840
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	43	185	13	48	56	233
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	17	113	0	0	17	113
Oth Africa	2	5	10	8	12	12
TOTAL	79	1056	28	570	107	1627

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

RELEASED: February 27, 1991

		TOTAL YTD UNITS	TOTAL YTD $000
8456300000	Electro-discharge machines	92	7923
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	81	14083
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	19	4543
100035	Horiz. mach. ctrs., ATC	54	14676
100045	Machining centers, n.e.c.	234	23314
200010	Unit construction mach. (single station transfer), NC	2	230
200090	Unit construction mach. (single station transfer), non-NC	9	4870
300010	Multi-station transfer machines, NC	21	33589
300090	Multi-station transfer machines, non-NC	24	5959
8458110010	Horizontal lathes, multiple spindle, NC	25	5881
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	294	23157
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	68	9273
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	22	5587
190030	Horizontal engine or toolroom lathes, non-NC	117	2020
190050	Automatic bar and/or chucking mach., single spindle, non-NC	20	532
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	57	2883
190090	Horizontal lathes, n.e.c., non-NC	454	5641
911060	Vertical turret lathes, multiple spindle, NC	4	1255
911080	Vertical turret lathes, n.e.c., NC	6	1443
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	15	1347
915070	Vertical lathes, excl. VTL's, n.e.c., NC	47	9105
991050	Vertical turret lathes, non-NC	61	1247
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	4557
8459100000	Way-type unit head machines	26	6427
210080	Other drilling machines, NC	101	9039
290040	Drilling machines, multiple spindle, non-NC	33	1704
290050	Drilling machines, radial, non-NC	21	209
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	103	2192
290090	Drilling machines, n.e.c., non-NC	716	4854
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	4	1664
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856
310070	Boring-milling machines, n.e.c., NC	20	1155
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	28	1139
400040	Boring machines, vertical, NC	8	2483
400050	Boring machines, vertical, non-NC	44	1451
400070	Boring machines, n.e.c., NC	9	3308
400080	Boring machines, n.e.c., non-NC	31	1502
510080	Milling machines, knee type, NC	22	2273
590030	Milling machines, knee type, non-NC	124	4402
610080	Milling machines, excl. knee type, n.e.c., NC	59	20911
690050	Milling machines, profile, dup., or die sinking, non-NC	26	555
690070	Milling machines, bed type, non-NC	2	288
690090	Milling machines, n.e.c., non-NC	210	6567
700020	Threading or tapping machines, n.e.c., NC	41	1577
700080	Threading or tapping machines, n.e.c., non-NC	726	6580
8460110080	Flat surface grinding mach., NC	86	9339
190010	Flat surface grinding mach., recip.-table type, non-NC	59	1040
190050	Flat surface grinding mach., n.e.c., non-NC	39	7902
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	112	32263
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	53	6269
290030	Grinding mach., internal cylindrical, non-NC	53	3594
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	384	15639
310080	Sharpening machines (tool & cutter grinding), NC	49	4252
390050	Sharpening machines (tool & cutter grinding), non-NC	1084	14729
400060	Honing or lapping machines, NC	4	827
400080	Honing or lapping machines, non-NC	893	14609
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	1402
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1190	18731
8461100060	Planing machines, NC	6	788
100080	Planing machines, non-NC	279	7445
200010	Shaping or slotting machines, NC	9	365
200090	Shaping or slotting machines, non-NC	38	1168
300060	Broaching machines, NC	13	1600
300080	Broaching machines, non-NC	28	2066
401050	Gear hobbers	42	5758
401070	Gear shapers	51	7000
401090	Gear cutting machines, n.e.c.	96	40356
405060	Gear grinding or finishing machines	67	5766
500050	Sawing or cutting-off machines, NC	123	4492
500090	Sawing or cutting-off machines, non-NC	1466	19230
9000000001	Metal cutting machine tools, n.e.c.	1256	25202
9800000001	Used or rebuilt machine tools	5007	58208
9900000001	Machine tools valued at less than $2,500	39124	23482
	Y-T-D Cutting Total	55802	600022
	NC Y-T-D Cutting Total*	1812	259312

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	33	3047
8457100015	0	0	0	0	17	2097	0	0	41	8114
100025	0	0	0	0	0	0	0	0	11	2440
100035	0	0	0	0	18	4018	0	0	13	[illegible]986
1000[illegible]	0	0	0	0	27	3677	1	297	34	3703
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1860
300090	0	0	0	0	0	0	0	0	0	0
8458110010	1	1550	0	0	0	0	0	0	15	3435
110030	7	679	0	0	54	4282	0	0	19	2279
110050	0	0	0	0	29	3019	1	226	21	2867
110090	0	0	0	0	0	0	2	575	19	4769
190030	3	37	0	0	0	0	0	0	11	416
190050	0	0	0	0	0	0	2	91	12	307
190070	0	0	0	0	0	0	0	0	11	743
190090	56	218	0	0	4	47	0	0	73	1402
911060	0	0	0	0	0	0	0	0	2	1088
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	1	23	2	713
915070	0	0	0	0	0	0	7	447	1	103
991050	0	0	0	0	0	0	0	0	9	174
995090	2	61	0	0	0	0	4	195	20	575
8459100000	0	0	0	0	1	181	5	572	0	0
210080	1	33	0	0	0	0	5	253	22	3364
290040	0	0	0	0	0	0	0	0	15	636
290050	0	0	0	0	0	0	0	0	17	120
290070	15	92	0	0	0	0	0	0	49	570
290090	18	80	0	0	0	0	14	119	299	1809
310010	0	0	0	0	0	0	2	759	1	95
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	29
390040	2	250	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	143	6	498
400040	0	0	0	0	0	0	0	0	4	1344
400050	9	150	0	0	0	0	2	628	14	289
400070	0	0	0	0	0	0	0	0	9	3308
400080	0	0	0	0	0	0	[illegible]	320	9	465
510080	1	55	0	0	0	0	[illegible]	0	15	1639
590030	22	944	0	0	0	0	[illegible]	0	31	898
610080	2	2471	0	0	0	0	0	0	7	1018
690050	0	0	0	0	0	0	1	16	0	0
690070	0	0	0	0	0	0	0	0	1	50
690090	1	7	0	0	0	0	6	843	26	371
700020	1	17	1	23	8	203	0	0	3	306
700080	4	79	0	0	153	1245	0	0	124	992
8460110080	3	2094	0	0	1	30	15	1567	7	2319
190010	0	0	0	0	0	0	0	0	17	397
190050	4	861	0	0	0	0	2	320	9	1335
210080	1	255	0	0	0	0	2	440	23	9566
290010	0	0	0	0	0	0	6	431	9	543
290030	0	0	0	0	0	0	7	271	4	100
290050	0	0	1	200	0	0	38	963	73	2964
310080	3	89	0	0	0	0	0	0	4	317
390050	11	315	0	0	1	9	47	301	300	7200
400060	0	0	0	0	0	0	0	0	3	728
400080	15	202	5	70	1	8	2	9	42	806
900060	0	0	0	0	0	0	0	0	3	659
900080	19	195	4	32	5	44	13	903	257	2862
8461100060	0	0	0	0	0	0	5	676	1	111
100080	9	64	1	40	0	0	23	485	1	69
200010	0	0	0	0	0	0	0	0	1	48
200090	0	0	2	5	0	0	0	0	7	208
300060	0	0	0	0	0	0	0	0	4	825
300080	3	50	0	0	0	0	0	0	11	405
401050	0	0	0	0	0	0	0	0	11	1082
401070	0	0	0	0	4	214	4	1778	11	1416
401090	2	1153	0	0	0	0	4	1839	1	487
405060	0	0	0	0	0	0	1	12	5	1777
500050	0	0	0	0	1	202	0	0	86	3219
500090	46	473	1	12	9	170	5	95	263	2984
9000000001	1	8	0	0	0	0	29	627	244	1823
9800000001	130	2410	4	16	12	335	141	1264	782	9078
9900000001	1396	841	162	107	377	335	369	81	3089	3509
Y-T-D Tot	1788	15732	181	505	722	20115	770	17568	6270	115566
NC YTD Tot*	20	7243	1	23	155	17527	49	5715	391	63423

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	1	114	1	280	0	0	0	0	1	140
100025	2	845	0	0	0	0	0	0	1	296
100035	3	967	0	0	0	0	0	0	0	0
100045	28	4371	1	202	1	223	0	0	2	553
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	2	201	0	0	0	0	0	0
110030	3	387	15	1163	0	0	0	0	0	0
110050	2	443	2	388	2	498	0	0	2	710
110090	0	0	0	0	0	0	0	0	0	0
190030	1	5	6	91	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	12	250
190090	1	7	0	0	0	0	1	7	9	49
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	2	830
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	20	6687	0	0	0	0
991050	0	0	8	151	0	0	0	0	0	0
995090	0	0	0	0	0	[illegible]	1	25	10	497
8459100000	0	0	0	0	0	0	0	0	0	0
210080	10	628	1	48	0	0	0	0	1	39
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	3	12	9	71	0	0	5	195
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1375
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	18	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	41	1	124	1	25	0	0	1	19
610080	13	2138	3	257	1	716	0	0	2	389
690050	0	0	0	0	1	6	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	13	0	0	0	0	0	0	1	316
700020	0	0	0	0	1	341	0	0	0	0
700080	0	0	6	132	4	17	1	5	12	173
8460110080	1	787	4	132	0	0	0	0	1	41
190010	0	0	0	0	3	31	0	0	0	0
190050	1	186	0	0	0	0	1	71	6	808
210080	8	2376	3	584	5	1981	0	0	3	755
290010	9	2339	3	972	0	0	0	0	0	0
290030	2	73	4	180	8	1948	0	0	1	27
290050	8	573	0	0	31	1666	0	0	8	606
310080	0	0	2	64	0	0	0	0	0	0
390050	51	1100	5	72	4	113	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	19	396	21	185	3	196	1	14	69	790
900060	0	0	0	0	0	0	0	0	0	0
900080	2	17	24	249	40	412	0	0	63	1679
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	62	8	24	0	0	0	0	3	57
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	1	348	0	0	0	0	0	0	0	0
300080	1	445	1	228	0	0	0	0	0	0
401050	0	0	0	0	2	840	0	0	0	0
401070	0	0	1	278	0	0	0	0	5	266
401090	0	0	1	600	1	547	0	0	6	3253
405060	5	480	0	0	1	459	0	0	1	920
500050	0	0	0	0	0	0	1	62	0	0
500090	20	319	14	214	9	1443	1	9	24	394
9000000001	3	20	26	558	6	127	5	38	49	1595
9800000001	40	1046	89	992	169	2141	3	34	56	1082
9900000001	14	11	912	422	458	181	176	178	1345	693
Y-T-D Tot	253	20537	1168	8892	786	20871	191	443	1709	19032
NC YTD Tot*	72	13405	55	3817	32	10473	1	62	57	6646

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	12	1548	1	156	0	0	11	768	1	33
8457100015	0	0	5	707	1	93	3	601	0	0
100025	0	0	2	478	1	109	1	250	0	0
100035	4	1097	2	982	0	0	0	0	0	0
100045	11	515	28	2994	0	0	51	3340	0	0
200010	0	0	0	0	0	0	2	230	0	0
200090	0	0	3	415	0	0	2	1401	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	556	0	0	0	0	18	2178	0	0
8458110010	0	0	1	90	0	0	5	515	0	0
110030	35	2299	5	343	0	0	5	436	3	160
110050	0	0	1	64	0	0	2	431	0	0
110090	0	0	0	0	0	0	1	243	0	0
190030	2	43	0	0	0	0	28	329	0	0
190050	1	6	0	0	0	0	2	31	0	0
190070	14	493	3	426	0	0	0	0	0	0
190090	22	254	15	102	0	0	166	2699	0	0
911060	1	104	0	0	0	0	1	63	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	11	501	0	0
915070	1	25	0	0	0	0	17	1753	0	0
991050	0	0	0	0	0	0	7	121	0	0
995090	0	0	3	243	0	0	15	714	0	0
8459100000	0	0	4	345	0	0	4	454	0	0
210080	1	43	3	130	0	0	19	1210	0	0
290040	0	0	5	240	0	0	3	319	1	26
290050	0	0	0	0	0	0	3	47	0	0
290070	0	0	0	0	0	0	18	112	0	0
290090	21	220	32	261	3	183	174	1127	1	6
310010	0	0	1	809	0	0	0	0	0	0
310040	0	0	0	0	0	0	2	207	0	0
310070	0	0	2	124	0	0	2	162	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	5	40	0	0
400040	0	0	1	690	0	0	0	0	0	0
400050	0	0	0	0	0	0	9	222	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	128	0	0	14	438	0	0
510080	1	278	0	0	0	0	3	216	0	0
590030	6	326	0	0	8	218	6	222	0	0
610080	0	0	5	4744	0	0	4	127	1	542
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	238	0	0
690090	12	223	8	659	0	0	127	3044	0	0
700020	0	0	1	23	0	0	3	42	0	0
700080	2	50	1	42	0	0	55	341	3	80
8460110080	4	267	0	0	1	22	23	1270	4	119
190010	2	6	0	0	0	0	9	142	0	0
190050	2	773	2	295	0	0	1	57	2	1338
210080	28	5526	2	419	0	0	7	2266	0	0
290010	3	229	2	825	0	0	1	57	4	195
290030	2	170	0	0	0	0	4	66	0	0
290050	20	1395	0	0	0	0	102	2051	9	232
310080	2	749	2	72	0	0	16	508	0	0
390050	233	2036	55	712	30	173	29	434	6	41
400060	0	0	0	0	0	0	1	99	0	0
400080	41	615	322	4021	4	146	14	206	14	218
900060	0	0	1	18	0	0	2	66	0	0
900080	130	2630	83	893	2	12	133	2674	5	38
8461100060	0	0	0	0	0	0	0	0	0	0
100080	16	1537	53	1373	23	200	92	858	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	6	102	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	6	201	0	0
401050	5	855	2	115	0	0	0	0	0	0
401070	3	706	12	585	0	0	3	480	2	1008
401090	23	8765	29	13127	0	0	6	496	0	0
405060	3	210	23	960	0	0	4	153	0	0
500050	1	61	0	0	0	0	7	101	2	44
500090	169	2024	60	799	4	36	161	2054	190	1074
9000000001	76	4639	21	825	4	800	87	1855	20	193
9800000001	258	2659	246	5680	2	14	1344	9722	80	621
9900000001	3467	1544	1746	1026	329	482	8462	3222	234	201
Y-T-D Tot	4635	45476	2798	47157	412	2487	11322	54629	582	6168
NC YTD Tot*	144	15305	62	12687	3	224	190	14954	11	915

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	130	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	46	0	0	0	0	7	476	2	164
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	94	0	0	0	0	2	258	1	56
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	22	0	0	0	0	2	47	0	0
190050	0	0	0	0	0	0	0	0	1	7
190070	0	0	0	0	0	0	2	128	0	0
190090	7	78	0	0	1	170	4	25	2	26
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	2	28	0	0	0	0	1	10	1	18
995090	1	50	0	0	1	50	0	0	0	0
8459100000	0	0	2	663	0	0	1	245	0	0
210080	1	38	0	0	0	0	7	468	1	31
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	42	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	2	71	0	0	8	37	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	11	66	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	5	161	0	0	0	0	2	76	3	104
610080	3	1406	0	0	1	125	3	3850	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	2	11	1	187	0	0	0	0	3	73
700020	0	0	0	0	0	0	3	87	0	0
700080	3	11	0	0	0	0	0	0	2	75
8460110080	0	0	0	0	0	0	0	0	2	68
190010	1	43	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	2	115	0	0
210080	3	430	0	0	4	1306	1	312	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	1	20	1	118	0	0	0	0	0	0
290050	7	924	8	391	4	155	30	1115	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	24	209	3	11	0	0	5	64	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	19	12	125	39	544	17	215	13	71
900060	0	0	0	0	0	0	0	0	0	0
900080	11	190	23	307	52	509	31	344	16	137
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	10	0	0	5	736
200010	0	0	0	0	0	0	0	0	0	0
200090	7	27	0	0	0	0	6	410	1	33
300060	8	427	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	2	1425	1	575	0	0	0	0
405060	0	0	0	0	14	476	1	10	0	0
500050	0	0	17	367	4	100	0	0	0	0
500090	8	114	16	168	1	18	42	750	7	41
9000000001	122	2026	27	1273	45	411	61	820	3	40
9800000001	47	1458	54	518	127	548	41	733	56	183
9900000001	1693	667	584	423	771	494	749	577	311	380
Y-T-D Tot	1964	8698	750	5977	1091	5728	1022	11267	432	2271
NC YTD Tot*	19	2489	43	1637	9	1530	25	5599	6	320

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90 - December 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	3	193	0	0	0	0	28	1837	1	176
8457100015	2	459	0	0	0	0	3	472	6	1006
100025	0	0	0	0	0	0	0	0	1	125
100035	5	2056	0	0	0	0	6	1854	3	816
100045	21	1436	0	0	6	367	4	262	9	688
200010	0	0	0	0	0	0	0	0	0	0
200090	1	464	0	0	0	0	2	2500	0	0
300010	5	9400	0	0	0	0	14	22330	0	0
300090	0	0	0	0	0	0	3	3026	0	0
8458110010	0	0	0	0	0	0	0	0	1	90
110030	121	8660	0	0	2	173	10	802	11	1085
110050	5	410	0	0	0	0	0	0	1	217
110090	0	0	0	0	0	0	0	0	0	0
190030	55	932	0	0	4	64	1	15	3	18
190050	2	89	0	0	0	0	0	0	0	0
190070	7	349	0	0	0	0	5	404	3	89
190090	32	193	0	0	1	3	7	28	53	333
911060	0	0	0	0	0	0	0	0	0	0
911080	1	188	0	0	0	0	0	0	1	108
915050	0	0	0	0	1	110	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	28	591	0	0	0	0	0	0	5	154
995090	16	468	0	0	2	1509	1	33	5	137
8459100000	0	0	0	0	2	208	2	136	5	3623
210080	4	427	0	0	0	0	9	813	16	1514
290040	0	0	0	0	0	0	1	165	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	13	851	0	0	1	10	2	174	5	382
290090	8	76	0	0	15	69	7	57	97	462
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	1274
310070	1	185	0	0	0	0	7	368	7	286
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	5	393	0	0	0	0
400040	3	449	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	9	144
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	151
510080	0	0	0	0	0	0	0	0	2	84
590030	5	116	0	0	0	0	3	117	29	1012
610080	1	1178	0	0	5	580	1	100	7	1270
690050	0	0	0	0	0	0	24	534	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	4	298	0	0	1	14	6	62	11	445
700020	7	196	0	0	0	0	6	138	7	201
700080	13	395	0	0	213	1869	9	144	121	930
8460110080	0	0	0	0	0	0	2	55	18	569
190010	0	0	0	0	1	16	4	139	20	240
190050	2	393	0	0	0	0	3	946	2	405
210080	7	2097	0	0	0	0	7	1810	8	2141
290010	9	489	0	0	0	0	0	0	1	55
290030	2	69	0	0	0	0	17	552	0	0
290050	11	438	0	0	0	0	31	1419	3	547
310080	0	0	0	0	0	0	1	713	19	1742
390050	49	354	0	0	0	0	180	1182	51	401
400060	0	0	0	0	0	0	0	0	0	0
400080	15	240	14	3208	2	17	100	1187	106	1100
900060	0	0	0	0	0	0	0	0	14	660
900080	52	1089	0	0	27	263	59	1473	139	1780
8461100060	0	0	0	0	0	0	0	0	0	0
100080	3	24	0	0	1	50	11	725	27	1131
200010	0	0	0	0	0	0	7	160	1	157
200090	4	31	0	0	0	0	0	0	3	166
300060	0	0	0	0	0	0	0	[illegible]	0	0
300080	0	0	0	0	0	0	0	[illegible]	5	689
401050	3	877	8	466	0	0	8	[illegible]	3	672
401070	0	0	0	0	0	0	[illegible]	141	3	128
401090	0	0	6	4149	5	405	9	3535	0	0
405060	3	34	0	0	0	0	4	220	2	57
500050	4	336	0	0	0	0	0	0	0	0
500090	182	2457	1	34	0	0	75	1328	158	2218
9000000001	86	3155	0	0	9	98	46	467	286	3806
9800000001	149	2824	19	49	43	706	401	6912	714	7183
9900000001	3264	1286	9	5	781	309	2085	984	6341	5522
Y-T-D Tot	4208	46249	57	7910	1127	7232	3214	61171	8350	48341
NC YTD Tot*	220	28871	0	0	14	1230	77	29878	156	15339

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000
8454300010	Die casting machines	365	8996
8462100030	Headers and upsetters, including cold headers	61	23979
100050	Forging or die stamping machines, and hammers, n.e.c.	299	27231
210080	Bending, folding, straight. or flat. mach., incl presses, NC	390	36209
290030	Press brakes, non-NC	158	3793
290040	Bending rolls, non-NC	102	3209
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1209	30498
310080	Shearing machines, NC	92	7790
390050	Shearing machines, non-NC	424	9685
410080	Punching or notching mach., incl. comb. punch & shear, NC	172	26135
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	881	21760
910060	Hydraulic presses, NC	84	4935
910090	Hydraulic presses, non-NC	581	27848
990030	Presses, n.e.c., NC	147	12730
990040	Presses, mechanical, non-NC	108	12548
990060	Presses, n.e.c., non-NC	1112	41104
8463100080	Draw benches for bars, tubes, profiles, wire or the like	242	6670
200080	Thread rolling machines	60	2726
300080	Machines for working wire	750	23651
900080	Metal forming machine tools, n.e.c.	1636	58520
9800000002	Used or rebuilt machine tools	3242	61461
9900000002	Machine tools valued at less than $2,500	14164	10991
	Y-T-D Forming Total	26279	462469
	NC Y-T-D Forming Total	885	87799
	Cutting and Forming Totals:		
	Y-T-D Total	82081	1062491
	NC Y-T-D Total*	2697	347111

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000
1000000000	Machine tool parts and accessories	0	722127
2000000000	Parts for working rubber or plastics - heading 8477	0	282599
2710003070	Quenching or cutting oils	0	18520
8428900010	Industrial robots for lifting, handling, loading or unload	360	6637
8431390090	Parts industrial robots, handling and loading - heading 8428	0	74510
8456100000	Laser, light or photon beam for working any material	933	46118
200000	Ultrasonic process for working any material	77	1915
8477106010	Injection molding mach., for rubber or oth. thermosetting	305	21848
106070	Injection molding mach., for thermoplastics	423	54100
200010	Extruders for rubber or other thermosetting materials	352	16584
200050	Extruders for processing thermoplastics	845	41527
300000	Blow molding machines	557	43754
400000	Vacuum-molding and other thermoforming machines	4713	13781
510010	Machines for molding or retreading pneumatic tires	1522	20511
510090	Machines for molding or otherwise forming inner tubes	449	29446
590000	Machines for molding or otherwise forming n.e.c.	1467	23546
800000	Machines for working rubber or plastics n.e.c.	5684	109676
8479899040	Industrial robots, n.e.c.	6146	58292
908040	Industrial robot parts	0	27524
8537100030	Numerical controls for controlling machine tools	1937	28709
9024100000	Machines and appliances for testing metals	0	75730
9031100000	Machines for balancing mechanical parts	0	28815
300000	Profile projectors	0	6956
9032810040	Industrial process control instr., hydraulic or pneumatic	805728	59130

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	36	7	40	2	22	2	16	10	3253
8462100030	0	0	0	0	0	0	4	780	4	597
100050	1	67	0	0	2	90	6	616	31	3576
210080	24	1819	0	0	0	0	6	451	78	9944
290030	0	0	0	0	0	0	12	495	108	1968
290040	1	8	0	0	1	29	0	0	30	747
290050	21	615	1	90	0	0	19	271	337	5677
310080	3	179	0	0	0	0	0	0	20	2827
390050	7	106	0	0	15	238	26	437	106	2308
410080	2	64	0	0	0	0	3	339	34	4377
490050	16	106	2	960	16	194	56	720	233	3058
910060	1	10	0	0	0	0	1	14	8	1618
910090	6	237	4	113	4	1043	1	136	39	2135
990030	2	106	0	0	0	0	0	0	29	2202
990040	1	558	1	566	0	0	4	185	16	687
990060	14	483	1	22	0	0	38	1485	108	1637
8463100080	8	100	0	0	9	127	8	269	27	1819
200080	1	86	0	0	0	0	3	223	19	413
300080	11	353	5	98	3	158	82	1124	71	2046
900080	44	1639	11	421	1	35	14	1855	191	3096
9800000002	28	617	3	133	12	338	15	552	650	11495
9900000002	441	220	36	28	570	485	339	219	2060	1924
Y-T-D Tot	643	7409	71	2472	635	2758	639	10186	4209	67404
NC YTD Tot	32	2179	0	0	0	0	10	804	169	20968
C&F YTD	2431	23141	252	2977	1357	22873	1409	27754	10479	182970
C&F NC YTD*	52	9422	1	23	155	17527	59	6519	560	84392

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	12960	0	1663	0	8914	0	12766	0	159015
2000000000	0	9748	0	1058	0	6000	0	6780	0	78103
2710003070	0	287	0	5	0	32	0	57	0	1141
8428900010	4	66	0	0	2	164	0	0	69	2099
8431390090	0	3480	0	89	0	560	0	2018	0	16494
8456100000	3	123	0	0	22	615	7	743	36	2991
200000	1	14	0	0	1	202	1	20	9	191
8477106010	1	38	0	0	1	82	116	2513	11	975
106070	7	406	9	1030	0	0	14	1732	128	22215
200010	4	102	0	0	0	0	7	176	231	8848
200050	27	2703	1	41	5	649	21	1775	140	3860
300000	44	964	0	0	2	215	8	2680	25	5820
400000	16	166	0	0	6	51	15	458	71	4120
510010	411	1421	0	0	175	748	15	534	39	2812
510090	7	209	0	0	2	842	0	0	0	0
590000	11	119	7	148	47	779	3	136	67	3517
800000	80	1547	3	44	61	1097	57	1307	1035	33334
8479899040	13	75	0	0	15	184	2	76	4135	32544
908040	0	95	0	16	0	54	0	4	0	13402
8537100030	19	202	3	51	12	172	5	141	102	1267
9024100000	0	1043	0	393	0	611	0	1419	0	9241
9031100000	0	297	0	0	0	225	0	354	0	9680
300000	0	27	0	0	0	0	0	258	0	451
9032810040	18617	1350	10739	683	17906	907	797	82	25319	2360

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	38	1704	38	240	46	344	9	42	0	0
8462100030	0	0	3	1742	0	0	0	0	2	514
100050	1	166	1	616	3	305	0	0	3	777
210080	10	2215	9	388	0	0	3	576	0	0
290030	0	0	1	19	0	0	0	0	0	0
290040	1	32	1	47	0	0	0	0	9	95
290050	8	700	43	1285	12	1021	203	4400	2	12
310080	0	0	0	0	0	0	0	0	0	0
390050	4	133	19	832	3	55	0	0	0	0
410080	2	2624	19	2568	0	0	1	125	5	347
490050	56	1310	14	869	10	209	1	7	33	850
910060	9	105	4	199	0	0	0	0	0	0
910090	20	679	8	181	1	75	1	20	13	1017
990030	0	0	17	2016	0	0	0	0	6	1084
990040	8	1851	5	1157	0	0	0	0	0	0
990060	14	830	4	583	7	149	0	0	11	292
8463100080	4	355	10	268	4	116	0	0	0	0
200080	1	20	1	44	2	51	0	0	0	0
300080	14	819	34	1097	0	0	0	0	52	831
900080	10	1667	21	3088	55	907	0	0	26	2677
9800000002	121	1462	94	1894	83	3343	41	1748	46	615
9900000002	93	59	346	277	197	139	8	7	123	100
Y-T-D Tot	414	16732	692	19409	423	6715	267	6924	331	9212
NC YTD Tot	21	4945	49	5171	0	0	4	701	11	1432
C&F YTD	667	37269	1860	28302	1209	27585	458	7368	2040	28244
C&F NC YTD*	93	18349	104	8988	32	10473	5	763	68	8077

Other Manufacturing Technology

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	8567	0	23783	0	4623	0	1956	0	15623
2000000000	0	5640	0	4895	0	5957	0	637	0	3470
2710003070	0	14	0	70	0	32	0	291	0	35
8428900010	20	247	37	893	0	0	0	0	15	179
8431390090	0	654	0	1633	0	677	0	200	0	407
8456100000	16	799	26	2190	2	126	0	0	65	2235
200000	0	0	5	75	0	0	0	0	5	85
8477106010	0	0	1	26	0	0	0	0	5	294
106070	0	0	3	146	0	0	1	242	5	394
200010	0	0	0	0	0	0	0	0	0	0
200050	38	1081	11	834	43	2888	2	504	13	443
300000	0	0	6	1598	30	2123	0	0	3	17
400000	12	186	4	422	0	0	0	0	9	10
510010	0	0	6	122	26	1383	102	281	14	508
510090	3	620	9	796	4	916	2	17	2	47
590000	1	150	70	1070	49	592	0	0	46	1078
800000	692	14623	56	3159	99	3223	17	218	29	1123
8479899040	3	142	145	1931	3	19	0	0	120	2684
908040	0	43	0	719	0	5	0	0	0	378
8537100030	1	16	238	3415	7	77	0	0	86	1263
9024100000	0	3518	0	1712	0	280	0	423	0	2253
9031100000	0	94	0	160	0	2271	0	19	0	117
300000	0	0	0	603	0	0	0	0	0	197
9032810040	5497	387	31048	5195	23801	285	279	18	33783	2525

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	86	12	681	14	117	27	333	9	111
8462100030	24	12952	1	556	0	0	0	0	0	0
100050	29	3624	40	2538	2	155	27	1629	0	0
210080	10	1400	23	1424	9	327	59	3177	6	365
290030	3	55	0	0	0	0	12	334	1	7
290040	8	140	0	0	0	0	17	985	0	0
290050	46	955	67	2194	13	164	137	4423	9	329
310080	20	1573	3	700	0	0	19	942	18	813
390050	23	378	5	88	2	36	76	1745	1	49
410080	1	24	2	816	0	0	22	2234	35	4873
490050	68	1793	12	173	12	342	93	1779	6	55
910060	3	156	4	247	0	0	15	711	0	0
910090	6	144	20	4026	0	0	275	6950	7	436
990030	4	678	18	932	9	661	8	280	0	0
990040	3	661	1	45	0	0	8	236	4	252
990060	92	4923	46	7738	0	0	478	5833	29	328
8463100080	9	88	1	102	0	0	21	385	0	0
200080	0	0	0	13	0	0	7	711	1	132
300080	29	863	26	1221	6	98	91	1787	4	134
900080	95	4657	86	3591	36	2659	244	4145	63	1294
9800000002	77	2373	138	7418	4	69	1032	13382	7	435
9900000002	1419	676	284	187	7	6	2935	2693	226	160
Y-T-D Tot	1971	38198	789	34688	114	4635	5603	54694	426	9774
NC YTD Tot	38	3831	50	4118	18	989	123	7345	59	6051
C&F YTD	6606	83674	3587	81845	526	7122	16925	109323	1008	15942
C&F NC YTD*	182	19136	112	16806	21	1213	313	22298	70	6965

Other Manufacturing Technology

1000000000	0	66114	0	40888	0	5271	0	46687	0	9847
2000000000	0	11348	0	10244	0	2315	0	23688	0	4601
2710003070	0	345	0	85	0	41	0	468	0	129
8428900010	23	340	3	49	3	4	12	204	1	6
8431390090	0	1891	0	1553	0	102	0	6174	0	1172
8456100000	382	18525	11	302	23	654	17	392	25	1027
200000	3	42	0	0	0	0	3	60	1	13
8477106010	1	38	8	5087	0	0	124	9581	4	275
106070	11	2438	4	888	0	0	98	9743	4	782
200010	1	700	2	185	0	0	58	4489	0	0
200050	58	3213	53	837	7	200	116	3751	5	380
300000	9	4916	33	3444	0	0	135	8922	2	8
400000	411	981	38	1910	3	16	3981	3468	0	0
510010	38	595	4	521	29	518	91	1708	23	134
510090	8	316	20	2871	4	16	115	572	3	15
590000	369	3595	55	1696	11	30	227	2136	28	476
800000	138	3439	132	4267	126	1147	1837	14000	141	898
8479899040	140	1748	62	508	9	178	73	919	19	173
908040	0	2333	0	3317	0	18	0	208	0	126
8537100030	41	677	76	1028	10	126	27	923	14	156
9024100000	0	13069	0	12640	0	286	0	1710	0	526
9031100000	0	383	0	6922	0	21	0	2559	0	33
300000	0	2562	0	799	0	0	0	102	0	37
9032810040	23428	13248	28564	1486	111	12	13369	1557	96206	4982

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	21	583	1	9	0	0	3	66	23	179
8462100030	0	0	1	438	2	200	0	0	0	0
100050	1	140	11	961	3	150	9	1810	6	350
210080	3	151	1	31	1	30	16	684	2	1600
290030	1	56	7	294	0	0	2	100	0	0
290040	4	180	0	0	0	0	0	0	0	0
290050	21	862	4	102	20	375	26	1051	13	364
310080	1	44	0	0	0	0	1	53	0	0
390050	4	69	0	0	2	286	11	167	20	87
410080	2	228	1	50	0	0	7	535	0	0
490050	19	698	3	1098	1	9	6	498	31	316
910060	0	0	3	97	1	35	0	0	2	98
910090	3	30	22	305	3	40	12	3061	11	1788
990030	1	323	20	321	0	0	5	596	2	57
990040	10	403	0	0	1	120	17	810	0	0
990060	3	70	0	0	5	1114	70	2440	0	0
8463100080	0	0	28	357	7	160	1	426	18	162
200080	0	0	9	216	0	0	6	197	0	0
300080	6	142	31	930	6	61	5	137	10	481
900080	16	432	2	187	2	120	31	3280	6	298
9800000002	39	1774	21	436	2	51	59	967	21	456
9900000002	435	434	12	10	375	316	136	102	91	56
Y-T-D Tot	590	6618	177	5843	431	3066	423	16981	256	6290
NC YTD Tot	7	746	25	499	2	65	29	1869	6	1755
C&F YTD	2554	15316	927	11821	1522	8794	1445	28248	688	8562
C&F NC YTD*	26	3235	68	2136	11	1596	54	7468	12	2074

Other Manufacturing Technology

1000000000	0	14303	0	5153	0	7620	0	9825	0	4758
2000000000	0	3037	0	4399	0	1826	0	4445	0	3207
2710003070	0	341	0	42	0	22	0	1024	0	117
8428900010	18	77	0	0	4	333	0	0	0	0
8431390090	0	1932	0	43	0	220	0	811	0	40
8456100000	6	148	10	221	11	482	36	4363	1	15
200000	0	0	9	237	0	0	0	0	0	0
8477106010	6	450	0	0	0	0	0	0	0	0
106070	2	156	3	697	4	170	2	608	2	138
200010	0	0	0	0	0	0	6	836	0	0
200050	6	706	1	1643	0	0	13	566	1	1569
300000	0	0	20	1157	8	671	37	965	40	1045
400000	1	10	1	9	9	14	18	152	3	53
510010	4	72	28	784	2	3	8	188	0	0
510090	1	8	0	0	50	45	20	488	21	155
590000	20	78	18	185	40	450	21	816	12	157
800000	126	1430	13	660	32	370	41	825	10	333
8479899040	58	480	13	676	208	2016	13	223	0	0
908040	0	334	0	353	0	414	0	323	0	0
8537100030	62	881	10	103	17	244	9	145	12	130
9024100000	0	942	0	1641	0	1200	0	1786	0	45
9031100000	0	703	0	134	0	59	0	1328	0	23
300000	0	149	0	27	0	108	0	504	0	0
9032810040	27268	1938	14927	822	1902	199	17171	1497	137956	618

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	20	272	0	0	0	0	8	87	62	775
8462100030	0	0	0	0	0	0	17	3676	3	2525
100050	78	6926	0	0	2	80	14	861	29	1794
210080	23	1207	0	0	1	28	4	490	102	9897
290030	0	0	0	0	0	0	0	0	11	465
290040	0	0	0	0	2	70	0	0	28	876
290050	25	468	0	0	1	35	70	2069	111	3038
310080	2	93	0	0	2	380	0	0	3	186
390050	33	828	3	38	8	115	9	1062	47	630
410080	18	3876	0	0	0	0	8	932	10	2124
490050	57	2380	2	132	0	0	29	727	105	3477
910060	17	1288	0	0	0	0	3	95	13	263
910090	31	780	11	419	5	94	11	315	67	3822
990030	4	279	1	136	2	50	1	238	18	2769
990040	9	3005	0	0	0	0	6	729	14	1284
990060	55	2297	0	0	5	127	54	6435	78	4318
8463100080	33	695	0	0	5	250	25	301	24	692
200080	2	109	0	0	0	0	1	48	7	461
300080	60	1600	0	0	7	162	112	5378	85	4132
900080	281	8538	0	0	6	269	153	3624	242	10040
9800000002	141	1684	0	0	23	724	93	2374	492	7123
9900000002	1203	793	5	7	247	159	881	710	1695	1223
Y-T-D Tot	2092	37118	22	733	316	2543	1499	30151	3246	61914
NC YTD Tot	64	6743	1	136	5	459	16	1756	146	15238
C&F YTD	6300	83367	79	8643	1443	9776	4713	91321	11596	110255
C&F NC YTD*	284	35614	1	136	19	1689	93	31633	302	30578

Other Manufacturing Technology

1000000000	0	75586	0	3607	0	9997	0	70504	0	102096
2000000000	0	15360	0	930	0	4923	0	19966	0	50023
2710003070	0	66	0	0	0	82	0	225	0	13571
8428900010	53	585	0	0	0	0	45	761	51	631
8431390090	0	6355	0	907	0	1235	0	1566	0	24296
8456100000	52	2529	1	17	5	116	54	4286	122	3220
200000	16	375	0	0	0	0	8	226	15	374
8477106010	7	460	0	0	5	1055	1	80	14	894
106070	32	2763	19	3059	4	250	24	2717	47	3526
200010	4	63	0	0	2	53	3	217	34	916
200050	35	1037	36	4230	1	78	65	1420	147	7117
300000	26	4694	0	0	1	24	36	632	92	3859
400000	13	213	0	0	2	63	10	1133	90	346
510010	24	943	0	0	38	1609	30	799	415	4828
510090	20	19	3	84	0	0	6	117	149	21295
590000	112	1780	1	15	0	0	89	2517	163	2023
800000	205	5584	0	0	110	212	184	2991	460	13847
8479899040	98	1287	1	46	6	38	812	10343	198	2000
908040	0	1929	0	0	0	87	0	2508	0	857
8537100030	689	10334	0	0	1	8	225	3481	271	3869
9024100000	0	7605	0	522	0	246	0	6595	0	6022
9031100000	0	275	0	0	0	361	0	743	0	2053
300000	0	480	0	0	0	0	0	339	0	313
9032810040	179027	11324	381	29	5464	620	41465	2719	50703	4286

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	2	362	0	0	2	362
Czechoslovakia	14	460	16	166	30	626
Denmark	89	1180	83	481	172	1662
East Germany	0	0	2	359	2	359
Finland	233	220	80	1139	313	1359
Greece	328	922	59	4863	387	5785
Hungary	9	294	10	477	19	771
Iceland	0	0	0	0	0	0
Ireland	104	1880	109	1115	213	2994
Luxembourg	1	5	12	11	13	16
Norway	101	812	55	207	156	1020
Poland	27	952	13	1795	40	2747
Portugal	24	1256	76	2547	100	3803
Romania	250	21	41	136	291	157
Sweden	710	4047	200	3106	910	7154
Turkey	150	4822	60	440	210	5262
Yugoslavia	189	1362	8	290	197	1652
Oth Europe	1	53	14	39	15	92
TOTAL	15914	200395	7214	137710	23128	338105
NORTH AND CENTRAL AMERICA						
Bahamas	5	23	0	0	5	23
Barbados	1	10	9	146	10	156
Belize	3	12	4	3	7	15
Bermuda	28	18	0	0	28	18
Costa Rica	378	1586	48	297	426	1884
Dominican Rep	51	463	204	2540	255	3003
El Salvador	42	231	15	179	57	409
Guatemala	14	35	24	235	38	269
Haiti	4	21	7	59	11	80
Honduras	121	452	38	555	159	1007
Jamaica	27	116	36	558	63	674
Panama	68	172	40	268	108	440
Trinidad	19	200	10	255	29	455
Oth N & C Am.	106	286	90	430	196	716
TOTAL	18459	173818	10337	127624	28796	301442
SOUTH AMERICA						
Argentina	88	1109	41	2057	129	3166
Bolivia	3	62	1	6	4	68
Chile	319	4005	280	3667	599	7672
Colombia	214	970	173	1990	387	2961
Ecuador	112	556	18	166	130	722
Paraguay	2	19	4	8	6	27
Peru	141	364	42	415	183	779
Uruguay	0	0	0	0	0	0
Oth South Am.	5	109	1	15	6	124
TOTAL	2781	31994	1515	21054	4296	53048
OCEANIA						
New Zealand	67	591	59	1207	126	1798
Oth Oceania	57	37	2	67	59	103
TOTAL	1912	16360	704	8682	2616	25042

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 - December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	2451	5235	398	2295	2849	7530
Iran	0	0	22	47	22	47
Iraq	7	537	60	5896	67	6433
Israel	333	3852	110	2626	443	6478
Jordan	9	8	3	32	12	40
Kuwait	4	61	8	293	12	354
Laos	0	0	1	8	1	8
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	10	50	0	0	10	50
Pakistan	47	489	9	108	56	597
Philippines	459	1142	274	6416	733	7558
Qatar	0	0	0	0	0	0
Saudi Arabia	256	738	129	5012	385	5750
Sri Lanka	9	59	0	0	9	59
Syria	1	5	1	6	2	11
United Arab Emr	63	215	49	251	112	466
Vietnam	0	0	0	0	0	0
Oth Asia	4	35	27	315	31	350
TOTAL	16146	171634	6358	161103	22504	332737
AFRICA						
Algeria	0	0	5	3613	5	3613
Botswana	0	0	0	0	0	0
Egypt	86	1989	49	1161	135	3150
Ethiopia	0	0	9	172	9	172
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	1	98	1	98
Niger	0	0	0	0	0	0
Nigeria	102	358	1	4	103	362
South Africa	362	3087	74	1193	436	4280
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	1	217	1	6	2	223
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	24	127	1	42	25	169
Oth Africa	15	43	10	8	25	51
TOTAL	590	5821	151	6296	741	12116

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

RELEASED: February 27, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	847	60639	59	5446
301050	Electro-discharge machines, n.e.c., NC	337	20834	27	1990
301070	Electro-discharge machines, n.e.c., non-NC	464	10787	42	1828
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2027	165264	137	13322
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	147	26601	18	2355
100035	Horiz. mach. ctrs., ATC	623	141574	41	9850
100045	Machining centers, n.e.c.	224	66463	18	3986
200010	Unit construction mach. (single station transfer), NC	24	2798	4	222
200090	Unit construction mach. (single station transfer), non-NC	2	517	0	0
300010	Multi-station transfer machines, NC	52	38705	1	62
300090	Multi-station transfer machines, non-NC	87	38893	5	1998
8458110010	Horizontal lathes, multiple spindle, NC	280	49572	14	2460
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2061	147846	76	6728
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	546	77476	18	2618
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	54	14755	6	1300
190030	Horizontal engine or toolroom lathes, non-NC	4350	44007	417	3442
190050	Automatic bar and/or chucking mach., single spindle, non-NC	927	15939	91	1133
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	136	13550	9	3097
190090	Horizontal lathes, n.e.c., non-NC	1735	16601	144	798
911060	Vertical turret lathes, multiple spindle, NC	22	3936	0	0
911080	Vertical turret lathes, n.e.c., NC	58	11750	2	169
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	95	12201	2	250
991050	Vertical turret lathes, non-NC	102	4481	5	237
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1138	24052	58	3394
8459100000	Way-type unit head machines	7	1928	1	106
210080	Other drilling machines, NC	324	22710	15	510
290040	Drilling machines, multiple spindle, non-NC	90	1985	16	116
290050	Drilling machines, radial, non-NC	487	3479	43	332
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	83	898	4	126
290090	Drilling machines, n.e.c., non-NC	458	14628	37	519
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2551	1	75
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	91	14114	6	901
310070	Boring-milling machines, n.e.c., NC	41	5292	3	2339
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	30	2276	2	78
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	6014	4	102
400040	Boring machines, vertical, NC	3	1471	0	0
400050	Boring machines, vertical, non-NC	70	2059	6	85
400070	Boring machines, n.e.c., NC	28	3553	0	0
400080	Boring machines, n.e.c., non-NC	288	7217	32	610
510080	Milling machines, knee type, NC	514	9369	5	80
590030	Milling machines, knee type, non-NC	3330	23687	255	1729
610080	Milling machines, excl. knee type, n.e.c., NC	504	24037	19	865
690050	Milling machines, profile, dup., or die sinking, non-NC	35	394	1	8
690070	Milling machines, bed type, non-NC	56	3746	4	98
690090	Milling machines, n.e.c., non-NC	873	20600	73	838
700020	Threading or tapping machines, n.e.c., NC	175	9537	12	604
700080	Threading or tapping machines, n.e.c., non-NC	187	5474	9	374
8460110080	Flat surface grinding mach., NC	138	14546	12	2246
190010	Flat surface grinding mach., recip.-table type, non-NC	1052	12074	29	184
190050	Flat surface grinding mach., n.e.c., non-NC	1972	21246	173	3149
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	537	97253	64	15843
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	495	19954	40	2036
290030	Grinding mach., internal cylindrical, non-NC	245	12373	31	821
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1124	44645	96	2553
310080	Sharpening machines (tool & cutter grinding), NC	245	6346	11	781
390050	Sharpening machines (tool & cutter grinding), non-NC	796	9580	41	518
400060	Honing or lapping machines, NC	34	4576	0	0
400080	Honing or lapping machines, non-NC	231	9134	8	958
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	56	3748	4	44
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1524	44642	117	5226
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	0	0
200010	Shaping or slotting machines, NC	85	3347	2	373
200090	Shaping or slotting machines, non-NC	182	7534	24	799
300060	Broaching machines, NC	13	11534	0	0
300080	Broaching machines, non-NC	79	7313	1	24
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	119	10899	6	498
401040	Gear shapers	38	13645	8	2744
401060	Gear cutting machines, n.e.c.	173	591	4	8
405050	Gear grinding or finishing for bevel gears	75	2585	15	905
405070	Gear grinding or finishing machines, n.e.c.	121	29076	20	2459
500050	Sawing or cutting-off machines, NC	102	6214	3	176
500090	Sawing or cutting-off machines, non-NC	1949	32183	156	2001
9000000001	Metal cutting machine tools, n.e.c.	367	18951	17	935
9800000001	Used or rebuilt machine tools	7713	33795	418	3147
9900000001	Machine tools valued at less than $2,500	942917	92336	79729	6813
	Cutting Total			82771	132417
Please see notes on last page	Y-T-D Cutting Total	986513	1766635		
of the metal forming section.	NC Y-T-D Cutting Total	10325	1086646		

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	127
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	26	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	62	0	0	0	0
300090	0	0	0	0	1	758	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	186	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	24	165	0	0	0	0	0	0
190050	0	0	4	79	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	14	100	0	0	7	55	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	1	10	0	0	0	0
991050	0	0	0	0	1	2	3	223	0	0
995090	0	0	15	79	2	7	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	9	1	66
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	1650
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	5	82
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	60	28	547	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	6
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	58
190010	0	0	0	0	0	0	0	0	3	29
190050	0	0	0	0	6	24	1	5	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	9	98	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	2	0	0	10	29	0	0	0	0
310080	0	0	0	0	0	0	0	0	3	13
390050	0	0	0	0	2	7	3	126	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	9	38	6	1543
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	80
200090	0	0	0	0	1	3	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	75
500050	0	0	0	0	0	0	0	0	2	14
500090	0	0	0	0	23	286	3	144	1	7
9000000001	0	0	0	0	0	0	1	4	0	0
9800000001	0	0	0	0	28	96	0	0	1	4
9900000001	126	14	2	4	63	109	136	50	2534	456
Month Tot	127	15	59	427	152	1576	194	1386	2563	4212
Y-T-D Tot	195	1685	2065	12704	1690	21522	1976	23972	34014	55016
NC YTD Tot	4	122	7	573	50	5273	83	9335	136	18599

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	30	2840	0	0	0	0	0	0	0	0
301050	11	880	0	0	0	0	0	0	0	0
301070	1	4	0	0	0	0	0	0	0	0
8457100015	82	8497	2	105	8	466	0	0	0	0
100025	9	1614	0	0	0	0	0	0	0	0
100035	40	9745	0	0	0	0	0	0	0	0
100045	2	1153	0	0	0	0	0	0	0	0
200010	0	0	4	222	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	210	0	0	0	0	0	0	0	0
8458110010	13	2275	0	0	0	0	0	0	0	0
110030	43	4731	3	164	0	0	0	0	0	0
110050	15	2380	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	12	2	40	25	334	0	0	0	0
190050	2	59	0	0	0	0	0	0	0	0
190070	2	147	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	241	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	12	0	0
995090	3	2191	1	54	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	8	348	0	0	0	0	1	12	0	0
290040	15	113	0	0	0	0	0	0	0	0
290050	1	47	0	0	0	0	8	45	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	3	20	1	100	0	0	8	70	21	60
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	1	47	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	11	140	0	0	0	0	62	716	0	0
610080	3	758	1	12	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	0	0	0	0	0	0
690090	2	211	0	0	16	40	1	13	3	122
700020	12	604	0	0	0	0	0	0	0	0
700080	2	8	0	0	0	0	0	0	1	13
8460110080	1	100	0	0	0	0	1	18	0	0
190010	2	10	0	0	20	109	0	0	0	0
190050	3	122	0	0	0	0	0	0	0	0
210080	40	10886	0	0	0	0	0	0	0	0
290010	9	670	0	0	0	0	0	0	0	0
290030	2	166	0	0	0	0	0	0	1	452
290050	4	196	0	0	0	0	1	64	1	17
310080	0	0	0	0	0	0	0	0	0	0
390050	4	46	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	284	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	61	2338	0	0	0	0	2	252	1	16
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	3	151	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	1	189	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	5	22	0	0	0	0	0	0
500050	1	162	0	0	0	0	0	0	0	0
500090	20	350	0	0	0	0	4	33	0	0
9000000001	8	808	0	0	0	0	0	0	0	0
9800000001	167	587	0	0	0	0	0	0	1	3
9900000001	6393	819	3695	337	48	9	0	0	254	131
Month Tot	7038	57202	3714	1057	117	957	89	1236	283	813
Y-T-D Tot	67254	852567	15463	18129	1165	18677	2109	25535	3152	16733
NC YTD Tot	6008	720889	136	9553	170	9140	95	2825	18	5753

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - December 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	13	2041	1	7	0	0	0	0	15	559
301050	13	890	0	0	0	0	3	220	0	0
301070	16	1506	15	217	0	0	4	92	6	9
8457100015	0	0	6	338	19	1556	8	1823	10	410
100025	0	0	7	688	0	0	0	0	2	53
100035	0	0	1	105	0	0	0	0	0	0
100045	0	0	0	0	1	556	3	1813	11	437
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	386	0	0	0	0	1	645	0	0
8458110010	0	0	0	0	0	0	1	185	0	0
110030	1	163	7	457	9	670	0	0	13	544
110050	0	0	0	0	0	0	0	0	1	52
110090	0	0	0	0	0	0	2	419	4	880
190030	0	0	88	468	28	468	0	0	248	1956
190050	4	633	31	186	0	0	0	0	50	176
190070	2	660	0	0	0	0	3	2283	2	7
190090	0	0	34	271	8	121	0	0	81	252
911060	0	0	0	0	0	0	0	0	0	0
911080	2	169	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	11	299	2	679	24	84
8459100000	0	0	0	0	1	106	0	0	0	0
210080	0	0	0	0	0	0	1	132	5	18
290040	1	3	0	0	0	0	0	0	0	0
290050	0	0	16	81	0	0	1	5	17	154
290070	0	0	0	0	0	0	4	126	0	0
290090	2	194	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	1	75
310040	0	0	0	0	0	0	2	580	4	321
310070	0	0	0	0	1	673	1	16	0	0
390040	2	78	0	0	0	0	0	0	0	0
390050	0	0	2	38	0	0	0	0	1	18
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	3	0	0
510080	0	0	2	5	2	70	1	6	0	0
590030	1	5	133	528	1	36	11	147	36	157
610080	0	0	5	37	0	0	1	7	9	51
690050	0	0	0	0	0	0	0	0	1	8
690070	0	0	3	52	0	0	0	0	0	0
690090	2	225	46	214	0	0	2	7	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	3	108	0	0	0	0	3	245	0	0
8460110080	0	0	0	0	2	15	7	2054	0	0
190010	0	0	3	24	0	0	0	0	1	14
190050	1	270	153	888	7	1804	2	36	0	0
210080	5	1138	0	0	1	101	18	3718	0	0
290010	12	1124	8	73	0	0	2	72	0	0
290030	0	0	1	5	0	0	0	0	27	198
290050	2	118	51	475	1	29	14	1392	11	232
310080	0	0	0	0	0	0	7	668	1	101
390050	5	163	0	0	19	102	5	38	3	36
400060	0	0	0	0	0	0	0	0	0	0
400080	1	352	0	0	3	50	1	272	0	0
900060	0	0	0	0	0	0	0	0	4	44
900080	6	489	2	13	0	0	12	389	18	149
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	293	0	0
200090	19	355	0	0	1	290	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	24	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	6	5	492	0	0
401040	0	0	0	0	0	0	7	2554	0	0
401060	0	0	0	0	0	0	4	8	0	0
405050	0	0	0	0	0	0	15	905	0	0
405070	0	0	0	0	3	146	11	2215	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	52	244	9	41	30	845	14	50
9000000001	1	82	6	21	0	0	1	20	0	0
9800000001	6	14	53	64	41	2084	115	160	6	136
9900000001	20	3	51499	3794	64	23	936	320	13959	743
Month Tot	142	11168	52225	9290	233	9245	1250	25912	14585	7921
Y-T-D Tot	2218	95371	719896	126216	5339	104993	13329	313040	116648	80476
NC YTD Tot	387	35865	832	28432	760	65312	967	149542	672	25433

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	376	28298	23	1609
8462100030	Headers and upsetters, including cold headers	161	15377	6	780
100050	Forging or die stamping machines, and hammers, n.e.c.	827	49098	74	6410
210080	Bending, folding, straight. or flat. mach., incl presses, NC	530	38505	21	1082
290030	Press brakes, non-NC	313	9221	25	900
290040	Bending rolls, non-NC	93	2974	2	25
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1233	43272	87	4608
310080	Shearing machines, NC	55	5214	2	847
390050	Shearing machines, non-NC	588	16530	38	626
410080	Punching or notching mach., incl. comb. punch & shear, NC	318	38986	6	1352
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	682	15755	35	402
910060	Hydraulic presses, NC	22	20256	2	337
910090	Hydraulic presses, non-NC	2458	20449	84	3708
990030	Presses, n.e.c., NC	51	4820	0	0
990035	Mechanical transfer presses, non-NC	16	35884	2	11581
990045	Mechanical presses, n.e.c., non-NC	185	5481	24	153
990060	Presses, n.e.c., non-NC	795	37117	59	3241
8463100080	Draw benches for bars, tubes, profiles, wire or the like	159	9810	35	2243
200080	Thread rolling machines	91	5690	9	192
300080	Machines for working wire	1397	71322	95	7700
900080	Metal forming machine tools, n.e.c.	778	33316	105	2604
9800000002	Used or rebuilt machine tools	1545	25307	167	4764
9900000002	Machine tools valued at less than $2,500	20268	5766	1523	523
	Forming Total			2424	55687
	Y-T-D Forming Total	32941	538448		
	NC Y-T-D Forming Total	976	107781		
	Cutting and Forming Totals:				
	Monthly Total			85195	188103
	Y-T-D Total	1019454	2305083		
	NC Y-T-D Total	11301	1194427		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	564515	0	51198
2000000000	Parts for working rubber or plastics - heading 8477	0	328098	0	31340
2710003070	Quenching or cutting oils	0	339	0	20
8428900010	Industrial robots for lifting, handling, loading or unload	2113	37810	341	3002
8431390080	Parts industrial robots, handling and loading - heading 8428	0	100220	0	13498
8456101010	Laser, light or photon beam for working metal, NC	167	30702	9	1457
101020	Laser, light or photon beam for working metal, non-NC	78	4408	3	377
105000	Laser, light or photon beam for other materials	563	9066	16	234
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158	0	0
205000	Ultrasonic processes for working other materials	329	256	270	27
8477103000	Injection molding mach., for manufacturing shoes	147	3389	1	183
106010	Injection molding mach., for rubber or oth. thermosetting	839	69739	68	5346
106050	Injection molding mach., for thermoplastics	2482	223604	168	16456
200010	Extruders for rubber or other thermosetting materials	217	16326	21	2054
200050	Extruders for processing thermoplastics	973	62728	45	3558
300000	Blow molding machines	339	52191	15	6502
400000	Vacuum-molding and other thermoforming machines	292	9921	66	745
510010	Machines for molding or retreading pneumatic tires	653	57022	115	4174
510090	Machines for molding or otherwise forming inner tubes	271	14450	5	1113
590000	Machines for molding or otherwise forming n.e.c.	1034	50598	98	3484
800000	Machines for working rubber or plastics n.e.c.	15508	121293	769	11665
8479899040	Industrial robots, n.e.c.	14363	83416	356	11461
908040	Industrial robot parts	0	36999	0	4637
8537100030	Numerical controls for controlling machine tools	15054	45547	4648	2836
9024100000	Machines and appliances for testing metals	0	13077	0	1151
9031100000	Machines for balancing mechanical parts	0	13536	0	1601
300000	Profile projectors	0	6660	0	578
9032810020	Industrial process control instr., hydraulic	155225	2424	10016	135
810060	Industrial process control instr., pneumatic	225634	4803	479	108

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	449	0	0	1	214
8462100030	0	0	0	0	0	0	0	0	2	122
100050	0	0	0	0	18	265	0	0	0	0
210080	1	94	0	0	3	290	0	0	8	143
290030	8	342	0	0	14	499	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	48	466	0	0	15	344
310080	0	0	0	0	0	0	0	0	1	666
390050	10	197	0	0	1	45	0	0	12	86
410080	0	0	0	0	1	3	1	248	0	0
490050	0	0	1	3	2	12	0	0	11	68
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	83	0	0	17	19
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	2	51
990060	0	0	0	0	28	1210	0	0	7	161
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	43	1853	0	0	3	1659
900080	0	0	0	0	11	164	0	0	0	0
9800000002	3	116	0	0	72	359	1	35	39	375
9900000002	0	0	0	0	10	11	0	0	0	0
Month Tot	22	749	1	3	259	5709	2	283	118	3908
Y-T-D Tot	547	20764	14	205	2259	68393	337	3667	1890	39547
NC YTD Tot	40	3458	0	0	60	7330	5	421	71	2919
C&F Month	149	764	60	430	411	7285	196	1669	2681	8119
C&F Y-T-D	742	22450	2079	12909	3949	89915	2313	27638	35904	94563
C&F NC YTD	44	3580	7	573	110	12603	88	9756	207	21518

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	219	0	200	0	8853	0	1008	0	1459
2000000000	0	68	0	9	0	6205	0	1053	0	1466
2710003070	0	7	0	0	0	4	0	0	0	0
8428900010	0	0	0	0	156	288	0	0	0	0
8431390080	0	0	0	7	0	2081	0	77	0	31
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	15	233	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	5	615	6	638	10	295
106050	0	0	0	0	30	4220	1	5	11	2169
200010	0	0	0	0	2	74	0	0	0	0
200050	0	0	0	0	5	248	0	0	2	3
300000	0	0	0	0	0	0	3	3082	2	713
400000	0	0	0	0	1	13	0	0	0	0
510010	0	0	0	0	23	1414	1	38	17	43
510090	0	0	0	0	1	128	0	0	1	10
590000	0	0	0	0	7	947	46	424	4	179
800000	14	45	0	0	107	1407	1	60	32	296
8479899040	0	0	0	0	3	176	1	36	0	0
908040	0	0	0	0	0	23	0	14	0	21
8537100030	0	0	0	0	0	0	0	0	4003	111
9024100000	0	0	0	0	0	72	0	0	0	158
9031100000	0	0	0	0	0	0	0	14	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	0	0	0	0	46	27	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	12	7	0	0	1	251	0	0	0	0
8462100030	2	318	0	0	0	0	0	0	0	0
100050	12	3857	0	0	0	0	0	0	2	2
210080	7	342	0	0	0	0	0	0	0	0
290030	1	13	0	0	2	46	0	0	0	0
290040	1	9	0	0	0	0	0	0	0	0
290050	5	424	0	0	0	0	0	0	9	662
310080	1	181	0	0	0	0	0	0	0	0
390050	5	152	0	0	1	14	0	0	0	0
410080	2	485	0	0	0	0	0	0	1	391
490050	0	0	0	0	0	0	17	268	0	0
910060	0	0	0	0	0	0	0	0	1	253
910090	27	1405	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	2	11581	0	0	0	0	0	0	0	0
990045	2	34	0	0	0	0	0	0	0	0
990060	3	371	1	105	0	0	0	0	2	74
8463100080	12	1848	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	2	61	0	0
300080	36	2730	0	0	0	0	0	0	0	0
900080	34	967	0	0	0	0	2	10	1	65
9800000002	4	204	0	0	0	0	0	0	0	0
9900000002	123	102	0	0	0	0	39	35	1	2
Month Tot	291	25030	1	105	4	311	60	374	17	1448
Y-T-D Tot	4447	215936	29	744	88	486	526	4355	623	32939
NC YTD Tot	414	34713	0	0	1	5	2	318	16	25487
C&F Month	7329	82231	3715	1162	121	1268	149	1611	300	2262
C&F Y-T-D	71701	1068504	15492	18873	1253	19163	2635	29890	3775	49672
C&F NC YTD	6422	755602	136	9553	171	9145	97	3142	34	31241

Other Manufacturing Technology

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	13465	0	53	0	486	0	256	0	1359
2000000000	0	3534	0	72	0	72	0	17	0	34
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	132	1993	0	0	0	0	0	0	17	165
8431390080	0	6962	0	10	0	6	0	0	0	34
8456101010	8	1432	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	2	10
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	270	27	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	20	1990	1	88	0	0	0	0	1	9
106050	58	5713	3	102	1	80	0	0	0	0
200010	8	661	0	0	0	0	0	0	0	0
200050	4	51	0	0	0	0	0	0	0	0
300000	5	1221	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	32	318	0	0	0	0	0	0	0	0
510090	1	932	1	36	0	0	0	0	0	0
590000	2	86	0	0	0	0	0	0	0	0
800000	31	744	0	0	0	0	1	6	0	0
8479899040	216	7740	0	0	2	83	0	0	12	343
908040	0	2186	0	0	0	0	0	0	0	76
8537100030	586	2590	0	0	0	0	0	0	0	0
9024100000	0	86	0	0	0	0	0	0	0	461
9031100000	0	1566	0	5	0	0	0	0	0	0
300000	0	228	0	0	0	0	0	0	0	0
9032810020	0	0	850	4	0	0	0	0	0	0
810060	10	3	0	0	0	0	0	0	30	2

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
December 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	539	0	0	0	0	1	149	0	0
8462100030	0	0	1	4	0	0	1	337	0	0
100050	0	0	3	53	16	119	6	1543	17	571
210080	0	0	1	18	1	195	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	16	0	0	0	0	0	0
290050	0	0	0	0	6	2528	3	139	1	45
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	7	8	124
410080	1	225	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	1	13	3	39
910060	0	0	0	0	0	0	0	0	1	85
910090	0	0	32	4	1	2	4	2155	1	40
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	20	69	0	0	0	0
990060	2	770	6	44	1	32	6	373	3	102
8463100080	0	0	0	0	0	0	23	395	0	0
200080	1	52	6	79	0	0	0	0	0	0
300080	1	460	4	75	2	8	6	916	0	0
900080	38	410	1	7	10	67	6	555	2	359
9800000002	27	328	2	7	3	721	5	2374	11	244
9900000002	8	17	678	203	43	12	29	38	592	102
Month Tot	80	2802	735	508	103	3753	92	8993	639	1711
Y-T-D Tot	1982	25925	7429	8915	1005	18186	2747	81025	9018	17362
NC YTD Tot	29	4891	9	968	27	878	255	21159	47	5233
C&F Month	222	13970	52960	9799	336	12998	1342	34905	15224	9632
C&F Y-T-D	4200	121296	727325	135130	6344	123178	16076	394064	125666	97838
C&F NC YTD	416	40756	841	29400	787	66190	1222	170701	719	30667

Other Manufacturing Technology

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4558	0	1220	0	3477	0	12029	0	2559
2000000000	0	304	0	406	0	713	0	16306	0	1081
2710003070	0	0	0	0	0	0	0	10	0	0
8428900010	3	2	0	0	32	419	1	135	0	0
8431390080	0	325	0	227	0	2391	0	615	0	731
8456101010	0	0	0	0	0	0	1	25	0	0
101020	0	0	0	0	0	0	1	367	0	0
105000	1	2	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	1	183	0	0	0	0	0	0
106010	5	798	2	70	0	0	13	532	5	310
106050	5	611	5	187	5	465	26	1864	23	1042
200010	2	208	5	116	1	49	3	945	0	0
200050	0	0	14	397	2	278	15	2451	3	130
300000	0	0	4	27	0	0	1	1458	0	0
400000	0	0	0	0	58	227	7	505	0	0
510010	0	0	0	0	9	64	12	2269	21	27
510090	0	0	1	7	0	0	0	0	0	0
590000	0	0	24	49	0	0	13	1178	2	623
800000	3	1033	22	252	7	127	507	6712	44	982
8479899040	0	0	0	0	6	2119	7	611	109	352
908040	0	155	0	0	0	631	0	1343	0	187
8537100030	5	57	50	56	0	0	4	21	0	0
9024100000	0	21	0	4	0	202	0	97	0	51
9031100000	0	0	0	0	0	13	0	3	0	0
300000	0	0	0	0	0	228	0	122	0	0
9032810020	538	15	0	0	750	4	0	0	7878	112
810060	0	0	0	0	25	12	7	2	361	62

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	54	1639	5	460	59	2099
Bulgaria	3	9	0	0	3	9
Czechoslovakia	8	99	0	0	8	99
Denmark	36	248	13	219	49	466
East Germany	0	0	0	0	0	0
Finland	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Ireland	11	5	0	0	11	5
Luxembourg	0	0	0	0	0	0
Netherlands	106	220	49	213	155	432
Norway	0	0	0	0	0	0
Poland	16	226	0	0	16	226
Portugal	16	79	0	0	16	79
Romania	1	14	0	0	1	14
USSR	1	20	0	0	1	20
Yugoslavia	92	1226	11	553	103	1780
Oth Europe	3	36	6	18	9	54
TOTAL	5228	57806	578	23772	5806	81578
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Oth N & C Am.	0	0	1	2	1	2
TOTAL	152	1576	260	5711	412	7287
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	59	427	1	3	60	430
OCEANIA						
Australia	43	239	0	0	43	239
New Zealand	2	10	0	0	2	10
Oth Oceania	0	0	0	0	0	0
TOTAL	45	249	0	0	45	249

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	14140	2432	356	83	14496	2515
Hong Kong	5	63	5	42	10	104
India	16	80	91	9	107	89
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	11	437	2	16	13	453
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	1	34	1	34
Thailand	21	842	0	0	21	842
Oth Asia	0	0	0	0	0	0
TOTAL	77287	72359	1486	26138	78773	98497
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	99	63	99	63
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	99	63	99	63

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

RELEASED: February 27, 1991

		TOTAL YTD	
		UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	847	60639
301050	Electro-discharge machines, n.e.c., NC	337	20834
301070	Electro-discharge machines, n.e.c., non-NC	464	10787
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	2027	165264
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	147	26601
100035	Horiz. mach. ctrs., ATC	623	141574
100045	Machining centers, n.e.c.	224	66463
200010	Unit construction mach. (single station transfer), NC	24	2798
200090	Unit construction mach. (single station transfer), non-NC	2	517
300010	Multi-station transfer machines, NC	52	38705
300090	Multi-station transfer machines, non-NC	87	38893
8458110010	Horizontal lathes, multiple spindle, NC	280	49572
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2061	147846
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	546	77476
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	54	14755
190030	Horizontal engine or toolroom lathes, non-NC	4350	44007
190050	Automatic bar and/or chucking mach., single spindle, non-NC	927	15939
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	136	13550
190090	Horizontal lathes, n.e.c., non-NC	1735	16601
911060	Vertical turret lathes, multiple spindle, NC	22	3936
911080	Vertical turret lathes, n.e.c., NC	58	11750
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	95	12201
991050	Vertical turret lathes, non-NC	102	4481
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	1138	24052
8459100000	Way-type unit head machines	7	1928
210080	Other drilling machines, NC	324	22710
290040	Drilling machines, multiple spindle, non-NC	90	1985
290050	Drilling machines, radial, non-NC	487	3479
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	83	898
290090	Drilling machines, n.e.c., non-NC	458	14628
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2551
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	91	14114
310070	Boring-milling machines, n.e.c., NC	41	5292
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	30	2276
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	6014
400040	Boring machines, vertical, NC	3	1471
400050	Boring machines, vertical, non-NC	70	2059
400070	Boring machines, n.e.c., NC	28	3553
400080	Boring machines, n.e.c., non-NC	288	7217
510080	Milling machines, knee type, NC	514	9369
590030	Milling machines, knee type, non-NC	3330	23887
610080	Milling machines, excl. knee type, n.e.c., NC	504	24037
690050	Milling machines, profile, dup., or die sinking, non-NC	35	394
690070	Milling machines, bed type, non-NC	56	3746
690090	Milling machines, n.e.c., non-NC	873	20600
700020	Threading or tapping machines, n.e.c., NC	175	9537
700080	Threading or tapping machines, n.e.c., non-NC	187	5474
8460110080	Flat surface grinding mach., NC	138	14546
190010	Flat surface grinding mach., recip.-table type, non-NC	1052	12074
190050	Flat surface grinding mach., n.e.c., non-NC	1972	21246
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	537	97253
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	495	19954
290030	Grinding mach., internal cylindrical, non-NC	245	12373
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	1124	44645
310080	Sharpening machines (tool & cutter grinding), NC	245	6346
390050	Sharpening machines (tool & cutter grinding), non-NC	796	9580
400060	Honing or lapping machines, NC	34	4576
400080	Honing or lapping machines, non-NC	231	9134
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	56	3748
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1524	44642
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	8	53
200010	Shaping or slotting machines, NC	85	3347
200090	Shaping or slotting machines, non-NC	182	7534
300060	Broaching machines, NC	13	11534
300080	Broaching machines, non-NC	79	7313
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	119	10899
401040	Gear shapers	38	13645
401060	Gear cutting machines, n.e.c.	173	591
405050	Gear grinding or finishing for bevel gears	75	2585
405070	Gear grinding or finishing machines, n.e.c.	121	29076
500050	Sawing or cutting-off machines, NC	102	6214
500090	Sawing or cutting-off machines, non-NC	1949	32183
9000000001	Metal cutting machine tools, n.e.c.	367	18951
9800000001	Used or rebuilt machine tools	7713	33795
9900000001	Machine tools valued at less than $2,500	942917	92336
Please see notes on last page	Y-T-D Cutting Total	986513	1766635
of the metal forming section.	NC Y-T-D Cutting Total	10325	1086646

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	14	461	0	0
8457100015	0	0	0	0	0	0	6	633	2	127
100025	0	0	0	0	0	0	5	513	0	0
100035	0	0	0	0	0	0	1	209	12	252
100045	0	0	5	117	13	1166	1	260	15	2769
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	2	140	0	0	13	1976
300090	0	0	0	0	9	4648	0	0	7	3580
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	5	361	0	0
110050	0	0	0	0	0	0	28	3124	2	214
110090	0	0	0	0	1	15	0	0	4	2525
190030	0	0	682	4666	58	876	5	170	0	0
190050	0	0	51	563	1	13	0	0	0	0
190070	0	0	0	0	0	0	1	35	3	581
190090	0	0	796	4401	9	29	13	193	1	3
911060	0	0	0	0	1	250	0	0	0	0
911080	0	0	0	0	3	151	17	2374	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	11	0	0	8	2124
991050	0	0	0	0	1	2	13	852	20	36
995090	0	0	257	1491	49	241	16	648	9	222
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	5	614	1	146	0	0
290040	0	0	0	0	0	0	1	4	4	23
290050	0	0	52	477	0	0	0	0	15	241
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	15	707	24	4841	10	2365
310010	0	0	0	0	0	0	1	142	0	0
310040	0	0	0	0	7	834	0	0	5	928
310070	0	0	0	0	0	0	1	168	1	1650
390040	0	0	0	0	1	26	2	777	0	0
390050	0	0	0	0	2	21	0	0	27	468
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	3	43	652
400070	0	0	0	0	0	0	0	0	23	1916
400080	0	0	0	0	54	680	82	1518	77	879
510080	0	0	0	0	0	0	0	0	1	13
590030	1	3	0	0	2	13	1	3	1	6
610080	0	0	0	0	6	1549	2	70	3	1252
690050	0	0	0	0	0	0	0	0	1	42
690070	0	0	0	0	0	0	0	0	1	99
690090	0	0	0	0	5	81	13	794	59	6852
700020	0	0	0	0	0	0	0	0	0	0
700080	6	45	0	0	6	53	2	6	4	70
8460110080	3	119	0	0	2	55	0	0	15	1552
190010	0	0	0	0	0	0	0	0	27	481
190050	0	0	0	0	51	290	2	13	5	153
210080	0	0	0	0	1	241	1	39	9	780
290010	0	0	0	0	159	1169	0	0	2	127
290030	0	0	0	0	1	2	0	0	2	533
290050	3	7	0	0	58	437	3	90	34	775
310080	0	0	0	0	4	9	7	45	6	38
390050	0	0	0	0	45	180	7	307	7	97
400060	0	0	0	0	0	0	0	0	1	150
400080	0	0	0	0	12	131	0	0	4	43
900060	1	3	0	0	2	7	0	0	9	184
900080	1	3	0	0	31	489	50	206	179	9222
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	1	80
200090	3	8	0	0	47	135	1	67	5	189
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	110
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	3	230
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	3	10	0	0	0	0
405050	0	0	0	0	1	25	0	0	0	0
405070	0	0	0	0	2	76	1	129	2	151
500050	0	0	0	0	1	232	0	0	5	50
500090	5	20	72	216	272	3667	16	472	252	1437
9000000001	0	0	0	0	13	443	79	2480	25	137
9800000001	11	1443	2	29	174	1336	303	417	29	352
9900000001	161	35	145	115	559	468	1247	1250	33019	6282
Y-T-D Tot	195	1685	2065	12704	1690	21522	1976	23972	34014	55016
NC YTD Tot	4	122	7	573	50	5273	83	9335	136	18599

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	575	45304	0	0	0	0	0	0	0	0
301050	174	12119	0	0	0	0	2	50	1	2
301070	16	743	0	0	0	0	1	70	102	232
8457100015	1153	110931	55	3093	150	8271	9	455	0	0
100025	97	17935	0	0	0	0	0	0	0	0
100035	498	121048	0	0	0	0	2	270	0	0
100045	19	6029	3	187	1	83	0	0	4	1314
200010	0	0	23	2717	0	0	0	0	0	0
200090	2	517	0	0	0	0	0	0	0	0
300010	28	34289	3	179	0	0	0	0	0	0
300090	12	5231	0	0	0	0	0	0	0	0
8458110010	228	37377	0	0	0	0	0	0	0	0
110030	1671	128882	43	2552	0	0	0	0	0	0
110050	465	67786	1	64	0	0	0	0	0	0
110090	22	4218	0	0	0	0	5	725	0	0
190030	32	625	122	1410	308	3888	85	1287	0	0
190050	30	1876	0	0	0	0	0	0	0	0
190070	9	1748	0	0	0	0	0	0	0	0
190090	45	3183	12	295	0	0	1	124	0	0
911060	10	2121	1	159	0	0	0	0	1	201
911080	27	7714	2	215	0	0	0	0	1	581
915050	0	0	0	0	0	0	0	0	0	0
915070	52	7628	2	204	0	0	0	0	0	0
991050	1	170	0	0	0	0	1	12	0	0
995090	40	8091	77	4375	0	0	37	215	2	18
8459100000	1	8	0	0	0	0	1	1413	0	0
210080	266	17828	2	170	0	0	1	12	2	28
290040	41	1057	0	0	0	0	0	0	0	0
290050	5	133	0	0	0	0	21	321	38	154
290070	12	287	0	0	0	0	35	175	10	38
290090	61	2783	1	100	0	0	198	1729	48	173
310010	3	859	0	0	0	0	1	104	0	0
310040	2	594	0	0	0	0	1	247	0	0
310070	7	320	0	0	0	0	1	214	0	0
390040	1	198	0	0	0	0	2	180	2	17
390050	1	47	0	0	0	0	4	544	0	0
400040	2	1412	0	0	0	0	0	0	0	0
400050	5	960	0	0	0	0	0	0	0	0
400070	5	1638	0	0	0	0	0	0	0	0
400080	9	1647	0	0	0	0	0	0	0	0
510080	4	791	0	0	0	0	68	532	1	76
590030	59	1390	0	0	0	0	1477	11834	2	106
610080	48	11825	1	12	19	785	2	128	0	0
690050	3	62	0	0	0	0	0	0	0	0
690070	17	589	0	0	0	0	0	0	5	772
690090	35	2769	0	0	18	47	24	215	5	163
700020	171	9089	0	0	0	0	1	59	0	0
700080	76	2798	0	0	0	0	2	120	3	72
8460110080	32	3365	0	0	0	0	2	30	3	1589
190010	93	2822	0	0	405	4984	0	0	0	0
190050	61	2441	1	22	14	334	7	508	4	10
210080	279	54540	0	0	0	0	0	0	5	1963
290010	66	4810	1	25	0	0	0	0	6	584
290030	22	3484	0	0	0	0	0	0	4	1586
290050	202	19360	0	0	0	0	10	1167	13	2299
310080	14	827	0	0	0	0	0	0	0	0
390050	125	2509	0	0	0	0	0	0	0	0
400060	11	1095	0	0	0	0	0	0	0	0
400080	32	2240	0	0	0	0	0	0	26	1112
900060	20	1558	0	0	0	0	0	0	0	0
900080	492	16268	13	109	0	0	20	2109	7	53
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	71	2274	0	0	0	0	0	0	0	0
200090	22	3795	0	0	37	230	0	0	0	0
300060	9	1937	0	0	0	0	0	0	0	0
300080	10	901	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	12	1662	2	85	0	0	0	0	0	0
401040	5	1054	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	54	159	0	0	0	0	0	0	0	0
405070	13	2337	7	40	0	0	0	0	0	0
500050	28	2857	0	0	0	0	0	0	0	0
500090	229	8411	11	427	0	0	24	227	10	152
9000000001	55	7589	2	21	0	0	2	14	4	157
9800000001	2642	10753	801	93	6	20	16	432	122	646
9900000001	56614	8695	14277	1575	207	35	46	15	2721	2637
Y-T-D Tot	67254	852567	15463	18129	1165	18677	2109	25535	3152	16733
NC YTD Tot	6008	720889	136	9553	170	9140	95	2825	18	5753

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90 - December 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	171	12849	48	433	0	0	0	0	50	1900
301050	79	5120	14	281	31	1439	6	643	30	1181
301070	83	5011	147	1675	19	645	11	478	71	1472
8457100015	2	650	85	6061	416	24760	45	6158	104	4125
100025	0	0	38	3913	3	1394	2	2794	2	53
100035	1	1449	21	2689	11	395	76	13240	1	2022
100045	5	1676	14	912	8	899	86	49105	50	1947
200010	0	0	0	0	0	0	1	81	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	526	0	0	1	89	4	1506	0	0
300090	23	3855	0	0	0	0	36	21580	0	0
8458110010	1	859	3	130	6	844	40	10286	2	75
110030	9	1121	119	6655	79	4142	3	265	132	3868
110050	3	697	19	1004	7	1066	8	1554	13	1967
110090	0	0	1	50	1	104	15	5662	5	1458
190030	6	19	933	7233	412	6071	6	3590	1701	14171
190050	31	3877	332	2555	12	884	305	4945	165	1226
190070	33	6368	70	520	0	0	7	3948	13	350
190090	8	822	223	1720	139	2544	46	1320	442	1966
911060	6	463	0	0	0	0	1	622	2	120
911080	5	582	3	133	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	9	488	1	70	1	30	3	489	17	1158
991050	12	2591	14	48	9	25	2	539	29	205
995090	7	878	22	417	90	2102	37	2325	495	3029
8459100000	0	0	0	0	5	507	0	0	0	0
210080	3	117	0	0	4	791	32	2533	7	37
290040	7	630	25	71	0	0	8	47	4	153
290050	0	0	137	818	0	0	3	21	216	1315
290070	0	0	6	49	0	0	18	334	2	15
290090	8	307	2	25	3	16	19	1172	69	411
310010	0	0	3	464	1	840	0	0	2	142
310040	2	1202	2	3	4	1679	32	7405	36	1222
310070	2	61	2	12	4	1281	18	1027	5	559
390040	2	78	1	19	0	0	5	455	14	527
390050	0	0	17	144	1	693	30	3650	18	447
400040	0	0	0	0	0	0	0	0	1	59
400050	0	0	12	53	3	14	3	274	3	103
400070	0	0	0	0	0	0	0	0	0	0
400080	4	1611	1	7	4	174	50	568	7	133
510080	12	239	256	2544	105	3871	21	791	46	512
590030	6	298	1134	6091	86	672	40	1081	521	2389
610080	6	151	127	2293	14	750	183	4390	93	830
690050	0	0	5	24	0	0	1	4	25	262
690070	0	0	26	609	0	0	4	1636	3	41
690090	11	1666	374	1919	12	900	46	3237	271	1957
700020	0	0	0	0	0	0	3	389	0	0
700080	36	197	1	4	6	357	41	1683	4	67
8460110080	6	834	27	305	20	2268	26	4405	2	24
190010	0	0	390	2262	1	4	125	1468	11	54
190050	30	1618	1521	10045	79	3050	50	1729	147	1033
210080	38	6436	1	57	25	8241	175	24783	3	172
290010	73	7575	21	449	40	1045	67	3637	60	533
290030	24	2512	1	5	3	68	66	3219	122	964
290050	67	1970	139	896	88	1412	442	14797	65	1437
310080	21	192	34	202	9	553	106	3309	44	1172
390050	74	1204	149	750	208	1321	146	2659	35	552
400060	0	0	2	11	5	216	15	3104	0	0
400080	3	399	2	20	76	843	39	3876	37	471
900060	1	4	0	0	0	0	9	1667	14	326
900080	45	1925	54	396	116	645	298	11134	218	2084
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	2	35	1	5
200010	0	0	0	0	0	0	3	578	9	393
200090	46	640	2	8	4	301	13	2155	2	6
300060	0	0	0	0	4	9597	0	0	0	0
300080	0	0	0	0	40	2745	27	3558	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	3	160	0	0	5	56	84	8604	10	102
401040	0	0	0	0	0	0	30	12519	3	71
401060	80	9	0	0	25	134	61	69	2	22
405050	1	467	0	0	0	0	18	1694	1	240
405070	19	8304	0	0	8	832	46	15334	23	1873
500050	0	0	12	210	0	0	54	2756	2	109
500090	18	385	177	927	115	729	364	12319	384	2794
9000000001	23	2498	8	53	9	261	41	2788	106	2510
9800000001	108	1460	1602	472	1000	9457	742	6014	155	871
9900000001	939	312	711516	57498	1962	1237	8983	3001	110521	9182
Y-T-D Tot	2218	95371	719896	126216	5339	104993	13329	313040	116648	80476
NC YTD Tot	387	35865	832	28432	760	65312	967	149542	672	25433

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

RELEASED: February 27, 1991

Metal Forming Machine Tools

		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	376	28298
8462100030	Headers and upsetters, including cold headers	161	15377
100050	Forging or die stamping machines, and hammers, n.e.c.	827	49098
210080	Bending, folding, straight. or flat. mach., incl presses, NC	530	38505
290030	Press brakes, non-NC	313	9221
290040	Bending rolls, non-NC	93	2974
290050	Bending, folding, straight., or flat., n.e.c., non-NC	1233	43272
310080	Shearing machines, NC	55	5214
390050	Shearing machines, non-NC	588	16530
410080	Punching or notching mach., incl. comb. punch & shear, NC	318	38986
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	682	15755
910060	Hydraulic presses, NC	22	20256
910090	Hydraulic presses, non-NC	2458	20449
990030	Presses, n.e.c., NC	51	4820
990035	Mechanical transfer presses, non-NC	16	35884
990045	Mechanical presses, n.e.c., non-NC	185	5481
990060	Presses, n.e.c., non-NC	795	37117
8463100080	Draw benches for bars, tubes, profiles, wire or the like	159	9810
200080	Thread rolling machines	91	5690
300080	Machines for working wire	1397	71322
900080	Metal forming machine tools, n.e.c.	778	33316
9800000002	Used or rebuilt machine tools	1545	25307
9900000002	Machine tools valued at less than $2,500	20268	5766
	Y-T-D Forming Total	32941	538448
	NC Y-T-D Forming Total	976	107781
	Cutting and Forming Totals:		
	Y-T-D Total	1019454	2305083
	NC Y-T-D Total	11301	1194427

Other Manufacturing Technology

		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	564515
2000000000	Parts for working rubber or plastics - heading 8477	0	328098
2710003070	Quenching or cutting oils	0	339
8428900010	Industrial robots for lifting, handling, loading or unload	2113	37810
8431390080	Parts industrial robots, handling and loading - heading 8428	0	100220
8456101010	Laser, light or photon beam for working metal, NC	167	30702
101020	Laser, light or photon beam for working metal, non-NC	78	4408
105000	Laser, light or photon beam for other materials	563	9066
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	13	158
205000	Ultrasonic processes for working other materials	329	256
8477103000	Injection molding mach., for manufacturing shoes	147	3389
106010	Injection molding mach., for rubber or oth. thermosetting	839	69739
106050	Injection molding mach., for thermoplastics	2482	223604
200010	Extruders for rubber or other thermosetting materials	217	16326
200050	Extruders for processing thermoplastics	973	62728
300000	Blow molding machines	339	52191
400000	Vacuum-molding and other thermoforming machines	292	9921
510010	Machines for molding or retreading pneumatic tires	653	57022
510090	Machines for molding or otherwise forming inner tubes	271	14450
590000	Machines for molding or otherwise forming n.e.c.	1034	50598
800000	Machines for working rubber or plastics n.e.c.	15508	121293
8479899040	Industrial robots, n.e.c.	14363	83416
908040	Industrial robot parts	0	36999
8537100030	Numerical controls for controlling machine tools	15054	45547
9024100000	Machines and appliances for testing metals	0	13077
9031100000	Machines for balancing mechanical parts	0	13536
300000	Profile projectors	0	6660
9032810020	Industrial process control instr., hydraulic	155225	2424
810060	Industrial process control instr., pneumatic	225634	4803

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	15	7	0	0	117	6189	0	0	23	1488
8462100030	1	1273	0	0	2	124	1	12	27	2871
100050	0	0	0	0	160	4257	95	96	21	1296
210080	5	1236	0	0	57	7309	3	55	38	1725
290030	60	1922	0	0	187	6089	0	0	0	0
290040	0	0	0	0	11	101	1	367	23	537
290050	6	31	0	0	348	7788	74	1480	115	2532
310080	31	964	0	0	1	9	0	0	2	901
390050	105	2011	0	0	83	2544	2	95	29	580
410080	1	1068	0	0	2	13	2	366	2	71
490050	1	60	1	3	28	1558	1	20	70	733
910060	3	190	0	0	0	0	0	0	0	0
910090	21	53	0	0	67	5304	4	6	58	391
990030	0	0	0	0	0	0	0	0	29	222
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	2	13	1	107	3	61
990060	4	1418	0	0	284	12987	13	50	80	1605
8463100080	6	269	0	0	10	1028	0	0	7	94
200080	0	0	0	0	4	67	0	0	2	700
300080	156	8466	0	0	74	4210	16	327	140	16134
900080	0	0	0	0	65	4080	32	409	93	3236
9800000002	82	1789	11	200	613	4582	31	189	67	4053
9900000002	50	6	2	2	144	142	61	87	1061	317
Y-T-D Tot	547	20764	14	205	2259	68393	337	3667	1890	39547
NC YTD Tot	40	3458	0	0	60	7330	5	421	71	2919
C&F Y-T-D	742	22450	2079	12909	3949	89915	2313	27638	35904	94563
C&F NC YTD	44	3580	7	573	110	12603	88	9756	207	21518
Other Manufacturing Technology										
1000000000	0	6103	0	771	0	69370	0	9680	0	20699
2000000000	0	2986	0	52	0	62952	0	34692	0	15141
2710003070	0	7	0	0	0	213	0	0	0	0
8428900010	4	213	0	0	278	2704	8	385	13	2299
8431390080	0	241	0	393	0	16591	0	1110	0	1409
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	1	114	0	0	0	0
105000	0	0	0	0	24	705	2	34	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	1	8	0	0
8477103000	0	0	0	0	0	0	1	114	40	2309
106010	0	0	0	0	38	4594	59	7589	30	1566
106050	1	36	0	0	401	45741	19	1717	99	12400
200010	3	16	0	0	13	188	5	891	16	409
200050	4	732	0	0	101	5396	1	70	49	7880
300000	0	0	0	0	30	937	30	19618	18	3397
400000	0	0	0	0	8	157	4	250	9	329
510010	6	52	0	0	125	8664	36	2051	94	2377
510090	0	0	60	13	14	1399	4	35	19	40
590000	1	792	0	0	93	6135	61	894	51	3268
800000	446	1212	0	0	504	5682	352	5182	183	5713
8479899040	13	273	0	0	674	1813	69	775	6	419
908040	0	110	0	0	0	1154	0	318	0	629
8537100030	0	0	0	0	43	179	1	2	4211	416
9024100000	0	51	0	0	0	1343	0	42	0	521
9031100000	0	7	0	1	0	53	0	72	0	197
300000	0	0	0	0	0	10	0	0	0	9
9032810020	24	72	0	0	24	115	0	0	42	1
810060	2	1	0	0	126	54	100	7	2156	208

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	143	14772	2	127	1	251	0	0	0	0
8462100030	92	8953	0	0	0	0	0	0	0	0
100050	230	28118	14	470	5	9	1	6	21	310
210080	281	13634	0	0	1	5	1	26	5	7322
290030	15	412	0	0	8	175	0	0	0	0
290040	5	168	0	0	0	0	0	0	12	733
290050	140	9508	0	0	0	0	2	7	111	3101
310080	12	2083	0	0	0	0	1	292	0	0
390050	117	7804	1	30	2	34	0	0	15	287
410080	101	13292	0	0	0	0	0	0	6	2760
490050	100	6779	0	0	0	0	185	2120	9	171
910060	6	2254	0	0	0	0	0	0	5	15406
910090	225	6460	0	0	0	0	1	14	24	592
990030	14	3451	0	0	0	0	0	0	0	0
990035	8	35327	0	0	0	0	0	0	0	0
990045	45	3285	0	0	0	0	0	0	0	0
990060	111	8001	2	108	0	0	5	15	40	469
8463100080	51	6555	0	0	0	0	0	0	0	0
200080	55	3908	0	0	0	0	16	776	0	0
300080	668	27117	0	0	0	0	0	0	9	99
900080	182	7876	0	0	0	0	12	802	8	540
9800000002	100	5282	0	0	0	0	28	27	18	957
9900000002	1746	898	10	9	71	12	274	269	340	192
Y-T-D Tot	4447	215936	29	744	88	486	526	4355	623	32939
NC YTD Tot	414	34713	0	0	1	5	2	318	16	25487
C&F Y-T-D	71701	1068504	15492	18873	1253	19163	2635	29890	3775	49672
C&F NC YTD	6422	755602	136	9553	171	9145	97	3142	34	31241

Other Manufacturing Technology

1000000000	0	159263	0	1348	0	6384	0	3380	0	15127
2000000000	0	51593	0	1111	0	976	0	723	0	1442
2710003070	0	44	0	0	0	0	0	0	0	0
8428900010	924	17385	0	0	0	0	0	0	134	5235
8431390080	0	19696	0	293	0	29	0	87	0	1003
8456101010	135	27327	0	0	0	0	0	0	0	0
101020	1	435	0	0	0	0	0	0	2	10
105000	3	4592	0	0	0	0	0	0	407	36
201010	0	0	0	0	0	0	0	0	0	0
201050	7	88	0	0	0	0	0	0	3	10
205000	3	141	0	0	270	27	0	0	1	2
8477103000	0	0	0	0	0	0	26	10	0	0
106010	444	39539	10	679	4	243	0	0	3	91
106050	812	89750	43	1776	21	396	0	0	1	15
200010	71	7219	2	30	0	0	1	124	0	0
200050	64	7986	6	291	0	0	0	0	27	1354
300000	78	9819	42	234	0	0	2	281	0	0
400000	21	3717	0	0	0	0	0	0	0	0
510010	268	24849	0	0	0	0	1	13	0	0
510090	33	8004	5	114	0	0	0	0	2	4
590000	329	28048	4	73	1	30	0	0	2	140
800000	4729	40104	1900	238	4	606	15	351	32	258
8479899040	12697	59754	62	57	2	83	7	249	125	5824
908040	0	14488	0	0	0	11	0	2	0	961
8537100030	10185	44023	0	0	0	0	0	0	6	3
9024100000	0	3302	0	0	0	0	0	0	0	658
9031100000	0	11204	0	20	0	4	0	10	0	23
300000	0	2503	0	0	0	0	0	0	0	0
9032810020	167	94	18550	85	0	0	0	0	1	8
810060	1756	114	115000	207	0	0	0	0	10930	1773

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90 - December 90

Metal Forming	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	2457	3	216	6	130	14	2465	41	197
8462100030	0	0	1	4	0	0	37	2140	0	0
100050	19	3507	11	153	82	1974	81	6075	87	2828
210080	7	581	5	110	24	760	80	4017	23	1727
290030	0	0	4	32	0	0	1	4	38	587
290040	1	5	27	235	3	62	1	580	9	185
290050	25	1721	55	540	35	4169	164	10001	158	2394
310080	3	214	1	20	1	15	1	703	2	14
390050	1	181	8	96	114	1219	52	786	59	864
410080	17	3947	2	189	2	104	166	13832	17	3345
490050	19	754	28	175	82	1357	135	1634	23	390
910060	0	0	1	650	0	0	4	1638	3	118
910090	18	1054	1187	1038	12	1339	63	3701	778	497
990030	2	149	0	0	0	0	4	969	2	29
990035	1	100	0	0	1	318	6	139	0	0
990045	62	650	0	0	53	1114	16	183	3	68
990060	8	909	73	2174	86	2044	55	6668	34	670
8463100080	1	3	0	0	0	0	84	1860	0	0
200080	2	64	11	155	0	0	0	0	1	19
300080	38	4536	35	870	73	1292	168	7876	20	393
900080	148	3955	9	167	58	562	144	10640	27	1048
9800000002	170	933	37	124	189	1612	126	4765	73	794
9900000002	1429	207	5931	1969	184	114	1345	347	7620	1194
Y-T-D Tot	1982	25925	7429	8915	1005	18186	2747	81025	9018	17362
NC YTD Tot	29	4891	9	968	27	878	255	21159	47	5233
C&F Y-T-D	4200	121296	727325	135130	6344	123178	16076	394064	125666	97838
C&F NC YTD	416	40756	841	29400	787	66190	1222	170701	719	30667
Other Manufacturing Technology										
1000000000	0	39117	0	17442	0	44889	0	135744	0	35198
2000000000	0	7687	0	11103	0	8653	0	109016	0	19971
2710003070	0	1	0	0	0	0	0	74	0	0
8428900010	60	1543	0	0	100	2428	552	2301	40	3319
8431390080	0	13713	0	2088	0	14068	0	16408	0	13091
8456101010	10	565	0	0	7	900	9	1206	6	704
101020	0	0	0	0	6	388	66	3315	2	146
105000	10	1270	0	0	29	1057	33	31	54	1336
201010	0	0	0	0	0	0	0	0	0	0
201050	1	17	0	0	1	7	1	36	0	0
205000	0	0	0	0	1	38	2	32	51	9
8477103000	2	467	13	356	11	16	52	115	2	2
106010	31	4430	60	2738	4	38	78	4444	78	3787
106050	63	6990	119	4527	44	1167	620	42824	239	16266
200010	20	1147	20	330	8	364	45	5294	13	313
200050	7	2164	68	2517	114	2377	505	30623	27	1337
300000	0	0	37	1253	6	60	82	15537	14	1055
400000	0	0	3	28	65	240	177	5091	5	110
510010	0	0	0	0	27	629	59	14842	37	3547
510090	3	262	4	23	21	773	96	2809	10	974
590000	143	418	31	265	72	621	122	6500	124	3412
800000	383	5669	3218	2449	179	1815	3104	44939	459	7078
8479899040	13	1558	0	0	32	2828	189	6324	474	3460
908040	0	1560	0	143	0	3686	0	12702	0	1236
8537100030	19	111	75	79	14	90	295	525	205	118
9024100000	0	411	0	39	0	2587	0	2980	0	1143
9031100000	0	85	0	3	0	202	0	533	0	1120
300000	0	489	0	0	0	2565	0	653	0	431
9032810020	3940	173	0	0	12532	68	200	135	119745	1673
810060	1	2	73473	316	1874	81	14961	1044	5255	996

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1948	14116	14	718	1962	14833
Bulgaria	3	9	0	0	3	9
Czechoslovakia	101	1527	1	85	102	1613
Denmark	522	2527	148	987	670	3514
East Germany	689	2323	150	4	839	2327
Finland	52	424	69	3803	121	4227
Hungary	22	1138	0	0	22	1138
Ireland	44	100	2	14	46	114
Luxembourg	0	0	1	3	1	3
Netherlands	568	5477	455	1136	1023	6613
Norway	2	14	3	185	5	198
Poland	404	5814	0	0	404	5814
Portugal	228	759	76	1209	304	1968
Romania	2	32	0	0	2	32
USSR	23	462	1	9	24	472
Yugoslavia	806	7213	37	2597	843	9809
Oth Europe	72	2173	17	232	89	2405
TOTAL	67818	680451	10631	237391	78449	917841
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	127	56	1	5	128	61
Mexico	481	863	523	1208	1004	2071
Oth N & C Am.	0	0	1	2	1	2
TOTAL	2298	22441	2784	69608	5082	92049
SOUTH AMERICA						
Argentina	26	220	5	23	31	244
Chile	0	0	0	0	0	0
Colombia	2	18	1	3	3	20
Paraguay	0	0	0	0	0	0
Peru	1	2	0	0	1	2
Uruguay	0	0	0	0	0	0
Venezuela	3	326	1	2	4	328
Oth South Am.	0	0	0	0	0	0
TOTAL	2097	13269	21	233	2118	13502
OCEANIA						
Australia	176	2360	24	1034	200	3395
New Zealand	3	14	164	1594	167	1609
Oth Oceania	0	0	0	0	0	0
TOTAL	179	2375	188	2629	367	5004

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90 December 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	106883	22406	6834	871	113717	23278
Hong Kong	2900	640	33	328	2933	969
India	196	1617	162	45	358	1662
Indonesia	1	3	0	0	1	3
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	218	3973	77	485	295	4458
Malaysia	35	5	53	348	88	353
Pakistan	0	0	0	0	0	0
Philippines	4	15	2	55	6	69
Thailand	94	3715	0	0	94	3715
Oth Asia	1	68	10	99	11	167
TOTAL	914110	1048029	19164	228313	933274	1276342
AFRICA						
Ghana	4	8	0	0	4	8
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	59	153	275	158	334
Swaziland	2	3	0	0	2	3
Oth Africa	0	0	0	0	0	0
TOTAL	11	70	153	275	164	345

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

A8620-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL
No. 38-91 April 3, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JANUARY 1991
(Values in Millions of U.S. Dollars)

	Jan. 1991	Dec. 1990	Average Oct.-Dec.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 43.6	$ 49.3	$ 48.7	$ 43.6	$ 61.2	(28.8%)
Imports	$138.6	$132.4	$134.1	$138.6	$173.5	(20.1%)
Balance	($ 95.0)	($ 83.1)	($ 85.4)	($ 95.0)	($112.3)	(15.4%)
METAL FORMING MACHINE TOOLS						
Exports	$ 32.4	$ 43.0	$ 39.4	$ 32.4	$ 41.8	(22.5%)
Imports	$ 50.3	$ 55.7	$ 53.6	$ 50.3	$ 42.6	18.1%
Balance	($17.9)	($ 12.7)	($ 14.2)	($ 17.9)	($ 0.8)	NM
MACHINE TOOL TOTAL						
Exports	$ 76.0	$ 92.3	$ 88.1	$ 76.0	$103.1	(26.3%)
Imports	$188.9	$188.1	$187.7	$188.9	$216.1	(12.6%)
Balance	($112.9)	($ 95.8)	($ 99.6)	($112.9)	($113.0)	0.0%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 21.0	$ 32.1	$ 29.3	$ 21.0	$ 36.0	(41.7%)
Imports	$ 92.2	$ 79.2	$ 87.7	$ 92.2	$119.0	(22.5%)
Balance	($ 71.2)	($ 47.1)	($ 58.4)	($ 71.2)	($ 83.0)	(14.2%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$141.5	$141.4	$151.7	$141.5	$149.5	(5.4%)
Imports	$182.5	$178.9	$166.0	$182.5	$192.0	(4.9%)
Balance	($ 41.0)	($ 37.5)	($ 14.3)	($ 41.0)	($ 42.5)	(3.5%)

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NM = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

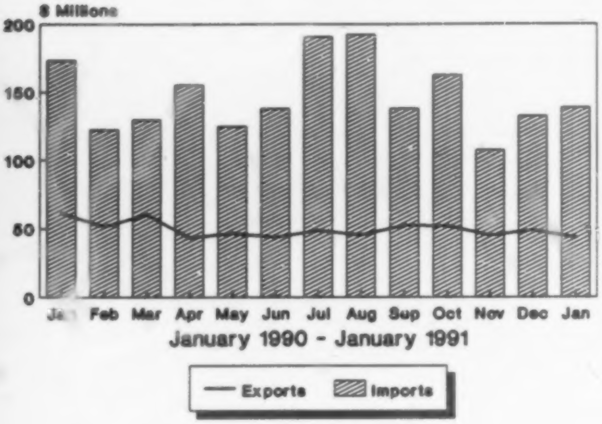
- U.S. machine tool exports were $76.0 million in January 1991, down 18% from December and down 26% from the previous year. Exports in January are usually lower than the annual monthly average.

- Machine tool imports of $188.9 million in January were up slightly from December but down 13% from the previous year.

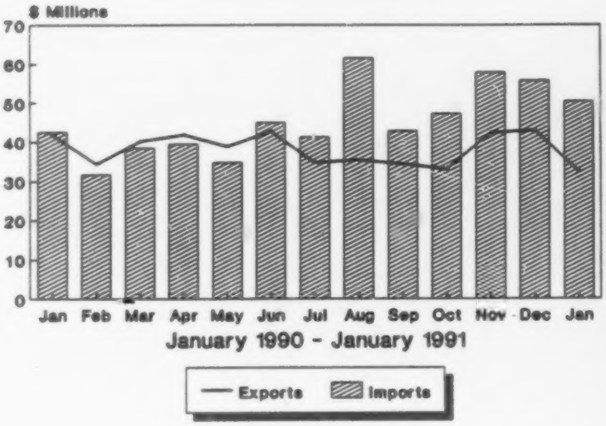
- Exports to Germany in January totalled $15.0 million to lead all countries. Total exports to Germany in 1990 were up 48% over 1989 at $91.3 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

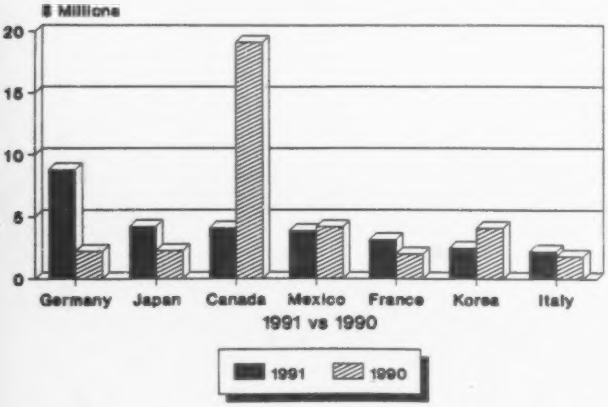
Exports

- Exports of metal cutting machines were $43.6 million in January, down 10% from the average for the previous three months.

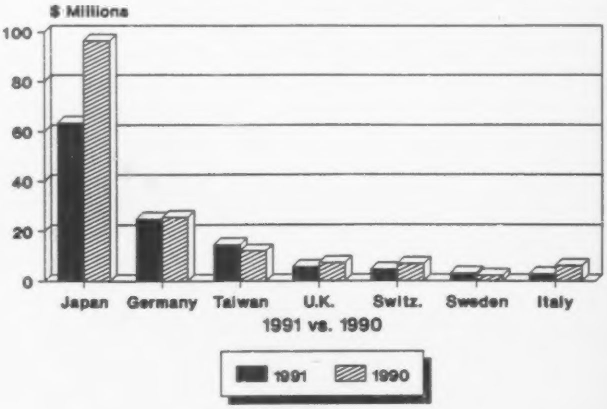
- Metal cutting exports to Germany reached $8.8 million, more than double the level of the next highest country. The reason: three NC multi-station transfer machines valued near $5.7 million.

- Exports of machining centers in January were $2.3 million, the lowest monthly total since June 1989. Exports of grinding machines were $5.9 million, down from $15.2 million in January 1990.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports of metal cutting machines in January of $138.6 million were slightly above the October-December average of $134.1 million.

- Imports from Japan were $63.5 million, down from $96.4 million in January 1990. Imports from Germany of $25.0 million were about equal to the previous month and the year earlier figures.

- Imports of NC horizontal lathes in January of $17.5 million were half the January 1990 total but up from $13.1 million in December.

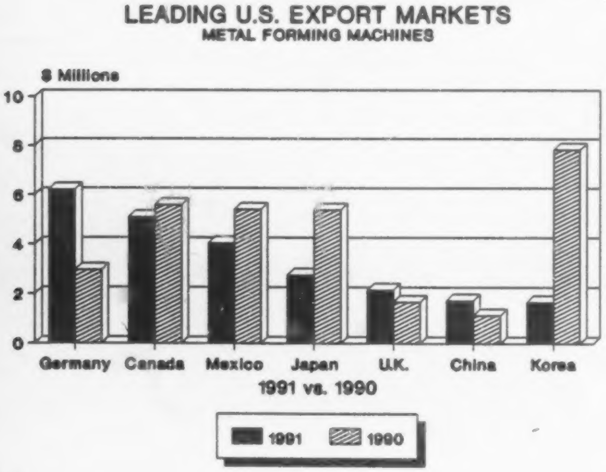
METAL FORMING MACHINE TOOLS

Exports

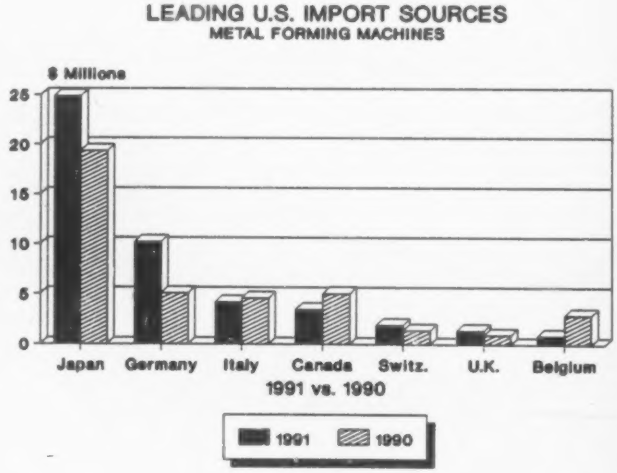
- Exports of metal forming machines in January fell to $32.4 million from $41.8 million in January 1990 and an average of $39.4 million the last three months of 1990.

- Germany was the largest export market at $6.2 million, followed by Canada ($5.1 million), Mexico ($4.1 million) and Japan ($2.7 million).

- Exports of presses in January were 293 units valued at $7.4 million. The comparable figures for December 1990: 132 units at $9.1 million.



LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- Metal forming machine tool imports in January were $50.3 million. More than 20% of the total - slightly more than $10 million -- was accounted for by a single non-NC mechanical transfer press from Japan.

- Japan accounted for almost 50% of total metal forming imports in January at $24.9 million, followed by Germany ($10.2 million), Italy ($4.2 million), Canada ($3.5 million) and Switzerland ($1.9 million).

- Imports of forging machines fell to $5.0 million in January 1991, down from $7.2 million in December and $8.5 million in January 1990. The leading sources in January 1991: Germany ($1.5 million), Italy ($1.3 million) and Japan ($1.1 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

- U.S. exports of machine tool parts and accessories reached $57.1 million in January. The top markets: Canada ($11.0 million), Germany ($7.6 million), the United Kingdom ($4.8 million) and Japan ($4.6 million).

- Exports of blow molding machines totalled 75 units valued at $5.1 million in January, both far higher than usual. The top markets: France (3 units, $1.5 million), the United Kingdom (3 units, $1.3 million), Mexico (21 units, $0.7 million), South Korea (21 units, $0.4 million) and Thailand (11 units, $0.2 million).

Imports

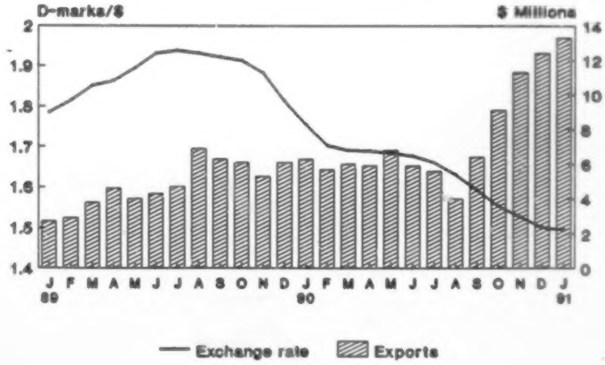
- Imports of industrial robots reached $8.9 million in January. Japan ($6.3 million) was the dominant supplier. Imports of industrial robot parts were $15.1 million. Again, Japan was the dominant supplier at $7.5 million.

- Imports of extruders totalled $9.6 million, while imports of injection molding machines were $28.9 million in January 1991. Comparable figures for January 1990: $6.7 million and $29.4 million, respectively.

MONTHLY FOCUS

The chart below details three-month moving averages for U.S. machine tool exports to Germany and the D-mark/$ exchange rate from January 1989 through January 1991. The export figure has risen five straight months, reaching a monthly average of $13.3 million for the period November 1990-January 1991. The sharply higher exports seem to coincide (after an appropriate lag) with the sharp depreciation of the dollar against the D-mark beginning in late 1989. While exchange rates certainly affect trade, it's too early to determine the extent to which the higher exports are related to the dollar's fall, or if the period of high exports will last as long as the dollar's slide did. In recent weeks the dollar has risen sharply against the Germany currency, in late March exceeding 1.7 marks to the dollar.

U.S. Machine Tool Exports to Germany
vs. D-mark/$ Exchange Rate, Jan. 1989-91
(Three Month Moving Averages)



1991 EXPORTS

METAL CUTTING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$8,827,813	$ 2,225,342	296.69%	$10,923,316	-19.18%
Japan	4,230,011	2,279,351	85.58	2,419,240	74.85
Canada	4,079,654	19,130,487	-78.67	7,652,871	-46.69
Mexico	3,855,967	4,163,500	-7.39	4,851,748	-20.52
France	3,136,337	1,999,186	56.88	425,252	637.52
Korea	2,471,187	4,103,519	-39.78	3,931,153	-37.14
Italy	2,218,427	1,825,244	21.54	1,942,326	14.21
India	1,797,948	3,542,508	-49.25	1,263,434	42.31
China	1,355,450	127,620	962.10	1,345,031	0.77
U.K.	1,291,592	7,091,975	-81.79	3,139,208	-58.86
Australia	998,164	2,222,694	-55.09	605,102	64.96
Belgium	976,425	1,368,481	-28.65	1,516,194	-35.60
USSR	923,067	0	NA	48,566	1,800.64
Venezuela	748,551	4,077	18,260.34	382,714	95.59
Netherlands	636,422	404,565	57.31	188,400	237.80
Taiwan	502,989	1,774,960	-71.66	352,464	42.71
Singapore	365,392	583,277	-37.36	559,322	-34.67
Brazil	347,227	3,521,261	-90.14	1,967,482	-82.35
Spain	187,092	424,524	-55.93	264,729	-29.33
Thailand	167,845	144,661	16.03	98,392	70.59
Switzerland	131,021	278,370	-52.93	473,094	-72.31
Malaysia	39,207	211,781	-81.49	153,842	-74.51
Indonesia	15,125	80,519	-81.22	98,045	-84.57
Austria	10,058	6,037	66.61	242,391	-95.85

METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$6,206,872	$2,957,432	109.87%	$4,242,836	46.29%
Canada	5,087,662	5,577,252	-8.78	4,286,217	18.70
Mexico	4,056,278	5,406,892	-24.98	4,921,040	-17.57
Japan	2,746,654	5,388,718	-49.03	5,585,156	-50.82
U.K.	2,149,158	1,665,510	29.04	1,959,190	9.70
China	1,724,628	1,140,331	51.24	57,692	2,889.37
Korea	1,665,256	7,834,296	-78.74	1,662,738	0.15
Italy	1,216,397	1,215,381	0.08	978,735	24.28
Brazil	907,783	64,729	1,302.44	952,474	-4.69
France	783,532	468,006	67.42	1,115,918	-29.79
Singapore	388,168	212,746	82.46	1,062,654	-63.47
Switzerland	365,203	0	NA	955,425	-61.78
Indonesia	358,560	6,965	5,048.03	183,753	95.13
India	282,559	828,485	-65.89	147,137	92.04
Malaysia	182,895	58,564	212.30	137,093	33.41
Netherlands	169,421	1,045,192	-83.79	957,957	-82.31
Australia	164,091	215,755	-23.95	1,230,709	-86.67
Thailand	155,628	284,000	-45.20	2,003,492	-92.23
Venezuela	90,265	168,125	-46.31	532,467	-83.05
Belgium	78,918	19,639	301.84	158,587	-50.24
Spain	18,813	284,142	-93.38	282,191	-93.33
Taiwan	6,970	959,646	-99.27	129,660	-94.62
USSR	0	0	NA	0	NA
Austria	0	566,000	-100.00	44,031	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Germany	$15,034,685	$ 5,182,774	190.09%	$15,166,152	-0.87%
Canada	9,317,673	7,856,603	18.60	6,705,457	38.96
Mexico	8,135,932	24,537,379	-66.84	12,573,911	-35.30
Japan	6,602,621	9,552,218	-30.88	10,436,904	-36.74
Korea	5,285,495	3,664,696	44.23	2,384,442	121.67
France	4,195,815	5,243,850	-19.99	3,988,845	5.19
U.K.	3,883,683	9,659,540	-59.79	3,605,064	7.73
Italy	3,014,345	4,757,889	-36.65	2,242,169	34.44
China	2,263,233	192,349	1,076.63	2,297,505	-1.49
India	2,075,124	7,559,981	-72.55	4,255,126	-51.23
Brazil	1,386,332	2,435,440	-43.08	1,667,756	-16.87
Australia	1,341,628	1,368,481	-1.96	2,471,619	-45.72
Belgium	1,281,627	6,965	18,300.96	232,319	451.67
USSR	1,031,110	832,562	23.85	529,851	94.60
Venezuela	819,317	463,129	76.91	325,493	151.72
Netherlands	672,410	2,820,152	-76.16	1,310,421	-48.69
Singapore	529,483	799,032	-33.73	1,790,031	-70.42
Taiwan	502,855	3,805,261	-86.79	3,970,974	-87.34
Switzerland	277,357	592,649	-53.20	797,196	-65.21
Indonesia	246,763	164,300	50.19	256,979	-3.98
Thailand	149,834	562,512	-73.36	755,285	-80.16
Malaysia	46,177	1,171,427	-96.06	283,502	-83.71
Spain	15,125	80,519	-81.22	98,045	-84.57
Austria	10,058	572,037	-98.24	286,422	-96.49

1991 IMPORTS

METAL CUTTING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$63,490,334	$96,409,162	-34.14%	$57,201,645	10.99%
Germany	25,045,900	25,716,456	-2.61	25,911,876	-3.34
Taiwan	14,670,300	12,024,656	22.00	9,290,443	57.91
U.K.	5,685,024	7,301,671	-22.14	9,245,378	-38.51
Switzerland	4,696,812	6,922,891	-32.16	11,168,038	-57.94
Sweden	3,064,111	2,261,885	35.47	813,101	276.84
Italy	2,765,832	6,114,586	-54.77	4,211,825	-34.33
France	2,550,411	1,164,643	118.99	1,385,578	84.07
Spain	2,455,208	2,003,220	22.56	1,236,388	98.58
Korea	1,297,883	2,236,678	-41.97	1,056,552	22.84
Singapore	1,114,025	2,703,581	-58.79	957,092	16.40
Canada	1,058,518	1,016,497	4.13	1,575,908	-32.83
Brazil	976,416	972,426	0.41	427,190	128.57
Belgium	768,044	183,202	319.23	15,138	4,973.62

METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$24,880,673	$19,339,002	28.66%	$25,029,639	-0.60%
Germany	10,206,658	5,060,547	101.69	8,992,753	13.50
Italy	4,185,027	4,570,942	-8.44	3,907,608	7.10
Canada	3,451,169	5,055,174	-31.73	5,708,660	-39.55
Switzerland	1,946,715	1,354,674	43.70	2,801,632	-30.51
U.K.	1,354,132	909,509	48.89	3,752,869	-63.92
Belgium	853,913	2,911,568	-70.67	749,165	13.98
Taiwan	643,687	755,929	-14.85	508,435	26.60
Spain	579,193	177,194	226.87	374,197	54.78
Sweden	382,640	1,167,365	-67.22	1,448,440	-73.58
France	277,255	168,658	64.39	282,990	-2.03
Brazil	38,940	0	NA	2,500	1,457.60
Korea	0	0	NA	104,969	-100.00
Singapore	0	0	NA	311,286	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JAN '91	JAN '90	%CHANGE	DEC '90	%CHANGE
Japan	$88,371,007	$115,748,164	-23.65%	$82,231,284	7.47%
Germany	35,252,558	30,777,003	14.54	34,904,629	1.00
Taiwan	18,855,327	16,595,598	13.62	13,198,051	42.86
U.K.	9,136,193	12,356,845	-26.06	14,954,038	-38.90
Italy	6,643,527	8,277,565	-19.74	13,969,670	-52.44
Switzerland	4,418,243	3,171,394	39.32	4,565,970	-3.24
Canada	3,619,745	9,026,154	-59.90	4,960,990	-27.04
Sweden	3,194,098	1,920,572	66.31	1,894,013	68.64
Spain	3,034,401	2,180,414	39.17	1,610,585	88.40
France	1,680,523	3,404,043	-50.63	2,504,992	-32.91
Belgium	1,391,280	2,872,239	-51.56	1,240,082	12.19
Korea	1,097,458	1,016,497	7.96	1,578,408	-30.47
Singapore	976,416	972,426	0.41	532,159	83.48
Brazil	768,044	183,202	319.23	326,424	135.29

1991 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		JANUARY 1990		DECEMBER 1990	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	2,899	12,224,015	5,617	9,821,987
Boring Machines	8	572,189	13	958,297	7	370,692
Drilling Machines	104	2,125,292	110	2,255,419	44	929,408
Gear Cutting Machines	14	7,378,919	41	5,554,867	24	6,435,136
Grinding Machines	244	5,937,543	271	15,211,730	391	11,084,336
Horizontal Lathes NC	15	2,388,500	43	4,863,833	29	3,450,520
Vertical Lathes NC	1	161,310	5	1,223,137	8	1,097,280
Lathes Non-NC	37	817,093	58	1,113,041	89	1,217,150
Milling Machines	21	1,285,651	48	3,596,641	37	987,344
Machining Centers	18	2,251,834	65	7,526,957	21	3,371,119
Station Type Machines	7	6,763,963	10	5,374,341	11	9,495,480
Other Metal Cutting	223	7,078,662	314	7,165,369	284	6,641,302
Punching & Shearing Machines	108	4,513,331	107	4,427,453	179	5,251,720
Bending & Forming Machines	116	4,251,882	137	5,902,352	177	8,308,327
Presses	293	7,418,063	259	11,682,624	132	9,144,740
Forging Machines	11	2,746,151	26	5,015,295	25	7,031,889
Other Metal Forming	231	7,030,224	265	8,974,698	241	7,635,732
TOTAL	6,801	75,952,544	4,671	103,070,069	7,316	92,274,162

PRODUCT TYPES	% CHANGE JAN'90 - JAN'91		% CHANGE DEC'90 - JAN'91	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	84.55	8.25	-4.75	34.72
Boring Machines	-38.46	-40.29	14.29	54.36
Drilling Machines	-5.45	-5.77	136.36	128.67
Gear Cutting Machines	-65.85	32.84	-41.67	14.67
Grinding Machines	-9.96	-60.97	-37.60	-46.43
Horizontal Lathes NC	-65.12	-50.89	-48.28	-30.78
Vertical Lathes NC	-80.00	-86.81	-87.50	-85.30
Lathes Non-NC	-36.21	-26.59	-58.43	-32.87
Milling Machines	-56.25	-64.25	-43.24	30.21
Machining Centers	-72.31	-70.08	-14.29	-33.20
Station Type Machines	-30.00	25.86	-36.36	-28.77
Other Metal Cutting	-28.98	-1.21	-21.48	6.59
Punching & Shearing Machines	0.93	1.94	-39.66	-14.06
Bending & Forming Machines	-15.33	-27.96	-34.46	-48.82
Presses	13.13	-36.50	121.97	-18.88
Forging Machines	-57.69	-45.24	-56.00	-60.95
Other Metal Forming	-12.83	-21.67	-4.15	-7.93
TOTAL	45.60	-26.31	-7.04	-17.69

1991 U.S. IMPORTS

BY PRODUCT GROUPS

	JANUARY 1991		JANUARY 1990		DECEMBER 1990	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	80,165	15,101,348	81,837	15,246,777
Boring Machines	75	3,212,626	40	2,511,474	54	4,190,094
Drilling Machines	136	5,284,960	187	5,976,518	115	1,602,810
Gear Cutting Machines	34	7,247,022	37	5,386,214	53	6,613,058
Grinding Machines	662	23,141,603	722	28,410,149	626	34,357,642
Horizontal Lathes NC	158	17,509,455	342	34,310,797	114	13,105,549
Vertical Lathes NC	9	1,367,349	23	2,826,480	4	419,200
Lathes Non-NC	722	8,815,703	609	9,691,329	724	12,100,861
Milling Mechines	449	12,771,541	450	9,477,437	357	3,618,186
Machining Centers	293	33,595,255	368	44,495,101	214	29,511,442
Station Type Machines	14	4,189,738	16	4,428,004	11	2,388,079
Other Metal Cutting	448	11,368,644	543	14,026,009	352	14,550,273
Punching & Shearing Machines	67	5,697,766	110	5,701,791	81	3,226,303
Bending & Forming Machines	189	6,557,096	206	7,285,979	135	6,615,138
Presses	72	16,236,188	339	7,092,434	171	19,020,684
Forging Machines	59	5,028,586	82	8,532,715	80	7,190,174
Other Metal Forming	286	13,786,011	289	10,864,319	267	14,347,226
TOTAL	75,340	188,904,534	84,528	216,118,098	85,195	188,103,496

	% CHANGE JAN'90 - JAN'91		% CHANGE DEC'90 - JAN'91	
PRODUCT TYPES	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-10.60	-13.29	-12.43	-14.11
Boring Machines	87.50	27.92	38.89	-23.33
Drilling Machines	-27.27	-11.57	18.26	229.73
Gear Cutting Machines	-8.11	34.55	-35.85	9.59
Grinding Machines	-8.31	-18.54	5.75	-32.64
Horizontal Lathes NC	-53.80	-48.97	38.60	33.60
Vertical Lathes NC	-60.87	-51.62	125.00	226.18
Lathes Non-NC	18.56	-9.04	-0.28	-27.15
Milling Machines	-0.22	34.76	25.77	252.98
Machining Centers	-20.38	-24.50	36.92	13.84
Station Type Machines	-12.50	-5.38	27.27	75.44
Other Metal Cutting	-17.50	-18.95	27.27	-21.87
Punching & Shearing Machines	-39.09	-0.07	-17.28	76.60
Bending & Forming Machines	-8.25	-10.00	40.00	-0.88
Presses	-78.76	128.92	-57.89	-14.64
Forging Machines	-28.05	-41.07	-26.25	-30.06
Other Metal Forming	-1.04	26.89	7.12	-3.91
TOTAL	-10.87	-12.59	-11.57	0.43

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

RELEASED: April 3, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	8	499	8	499
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	5	771	5	771
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	0	0	0	0
100035	Horizontal machining centers, ATC	2	680	2	680
100045	Machining centers, n.e.c.	11	801	11	801
200010	Unit construction mach. (single station transfer), NC	2	474	2	474
200090	Unit construction mach. (single station transfer), non-NC	1	585	1	585
300010	Multi-station transfer machines, NC	3	5667	3	5667
300090	Multi-station transfer machines, non-NC	0	0	0	0
8458110010	Horizontal lathes, multiple spindle, NC	5	1175	5	1175
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	5	457	5	457
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	4	665	4	665
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	1	92	1	92
190030	Horizontal engine or toolroom lathes, non-NC	3	22	3	22
190050	Automatic bar and/or chucking mach., single spindle, non-NC	0	0	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	0	0	0	0
190090	Horizontal lathes, n.e.c., non-NC	24	423	24	423
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	161	1	161
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	0	0	0	0
991050	Vertical turret lathes, non-NC	7	108	7	108
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	3	264	3	264
8459100000	Way-type unit head machines	1	38	1	38
210080	Other drilling machines, NC	17	1655	17	1655
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	2	16	2	16
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	2	8	2	8
290090	Drilling machines, n.e.c., non-NC	83	447	83	447
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	130	1	130
310070	Boring-milling machines, n.e.c., NC	0	0	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	1	33
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	3	133	3	133
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	0	0	0	0
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	3	276	3	276
510080	Milling machines, knee type, NC	1	480	1	480
590030	Milling machines, knee type, non-NC	10	605	10	605
610080	Milling machines, excluding knee type, n.e.c., NC	1	54	1	54
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	9	147	9	147
700020	Threading or tapping machines, n.e.c., NC	8	192	8	192
700080	Threading or tapping machines, n.e.c., non-NC	18	871	18	871
8460110080	Flat surface grinding machines, NC	1	27	1	27
190010	Flat surface grinding mach., recip.-table type, non-NC	11	128	11	128
190050	Flat surface grinding machines, n.e.c., non-NC	3	380	3	380
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	4	1124	4	1124
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	2	853	2	853
290030	Grinding machines, internal cylindrical, non-NC	0	0	0	0
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	38	1681	38	1681
310080	Sharpening machines (tool & cutter grinding), NC	3	78	3	78
390050	Sharpening machines (tool or cutter grinding), non-NC	79	591	79	591
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	25	352	25	352
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	0	0	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	78	721	78	721
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	25	207	25	207
200010	Shaping or slotting machines, NC	1	109	1	109
200090	Shaping or slotting machines, non-NC	9	103	9	103
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	1	185	1	185
401050	Gear hobbers	5	787	5	787
401070	Gear shapers	0	0	0	0
401090	Gear cutting machines, n.e.c.	8	5736	8	5736
405060	Gear grinding or finishing machines	1	856	1	856
500050	Sawing or cutting-off machines, NC	8	537	8	537
500090	Sawing or cutting-off machines, non-NC	79	1044	79	1044
9000000001	Metal cutting machine tools, n.e.c.	66	3331	66	3331
9800000001	Used or rebuilt machine tools	398	4913	398	4913
9900000001	Machine tools valued at less than $3,025	3083	1913	3083	1913
	Cutting Total			4173	43587
	Y-T-D Cutting Total	4173	43587		
	NC Y-T-D Cutting Total*	113	16676		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	101
8457100015	0	0	0	0	3	500	0	0	2	271
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	440
100045	0	0	0	0	0	0	0	0	3	209
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	2	189	0	40	0	0
110050	0	0	0	0	1	118	0	0	1	82
110090	0	0	0	0	0	0	0	0	1	92
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	8
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	68
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	10	0	0	0	0	0	0	1	6
290070	0	0	0	0	0	0	0	0	2	8
290090	0	0	0	0	0	0	1	61	12	74
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	480
590030	0	0	0	0	0	0	0	0	2	63
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	12	0	0	0	0	0	0	0	0
700020	0	0	0	0	1	24	0	0	0	0
700080	5	200	0	0	1	64	1	15	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	62
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	220	2	47
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	13	159
400060	0	0	0	0	0	0	0	0	0	0
400080	5	57	0	0	0	0	0	0	2	18
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	3	35	0	0	17	151
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	109
200090	0	0	0	0	0	0	0	0	1	9
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	128
500090	0	0	0	0	0	0	0	0	36	433
9000000001	1	506	0	0	0	0	0	0	2	146
9800000001	5	170	1	5	2	14	0	0	58	650
9900000001	71	44	8	5	13	33	17	10	236	265
Month Tot	89	998	9	10	26	976	20	347	401	4080
Y-T-D Tot	89	998	9	10	26	976	20	347	401	4080
NC YTD Tot*	1	506	0	0	7	831	0	40	13	1811

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	6	364	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	4	304	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	585	0	0
300010	0	0	0	0	3	5667	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	851	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	2	21	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	8	776	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	63	285	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	6	144	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	67	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	87	0	0	0	0	0	0	0	0
210080	1	474	0	0	0	0	0	0	0	0
290010	0	0	2	853	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	450	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	16	108	13	83	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	20	5	65	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	5	2	17	3	36	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	11	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	185	0	0	0	0	0	0
401050	0	0	0	0	3	160	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	197	0	0	1	841	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	2	330	0	0	0	0
500090	0	0	0	0	1	9	0	0	0	0
9000000001	1	9	5	260	0	0	0	0	0	0
9800000001	15	611	22	333	37	780	0	0	1	15
9900000001	0	0	111	72	72	48	6	4	0	0
Month Tot	27	1355	154	3136	169	8828	84	1798	1	15
Y-T-D Tot	27	1355	154	3136	169	8828	84	1798	1	15
NC YTD Tot*	7	618	10	1414	13	6774	0	0	0	0

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	35
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	240	0	0	0	0	0	0
100045	1	35	0	0	0	0	0	0	2	175
200010	0	0	1	335	0	0	0	0	1	139
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	7	242
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	161
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	196
8459100000	0	0	0	0	0	0	0	0	1	38
210080	0	0	6	617	0	0	0	0	2	209
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	3	0	0	0	0	4	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	130
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	1	33	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	105
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	194
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	19	0	0	0	0	1	80
610080	0	0	0	0	0	0	0	0	1	54
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	7	111
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	5	40
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	1	231	0	0	0	0	0	0
210080	2	421	0	0	0	0	0	0	1	229
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	159	0	0	0	0	5	54
310080	0	0	0	0	0	0	0	0	1	22
390050	0	0	33	221	0	0	1	4	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	57	2	91	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	5	4	40	9	107	0	0	18	114
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	55	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	28
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	28
401070	0	0	0	0	0	0	0	0	0	0
401090	2	1377	1	541	1	850	0	0	0	0
405060	0	0	1	856	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	126	7	41	2	17	1	26	11	117
9000000001	1	7	22	571	2	1295	0	0	21	192
9800000001	22	160	5	19	0	0	1	10	91	904
9900000001	210	29	475	246	510	115	0	0	393	242
Month Tot	247	2218	563	4230	527	2471	3	39	585	3856
Y-T-D Tot	247	2218	563	4230	527	2471	3	39	585	3856
NC YTD Tot*	3	456	30	1763	0	0	0	0	11	1130

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	53	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	3	99	0	0	0	0	1	174
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	27	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	543	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	2	56
390050	0	0	1	7	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	10	0	0	0	0	2	15	1	33
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	4	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	1	29	0	0
500090	0	0	0	0	0	0	0	0	2	29
9000000001	0	0	6	230	0	0	2	15	0	0
9800000001	1	7	1	5	23	160	2	11	17	145
9900000001	38	24	10	19	0	0	212	61	184	66
Month Tot	48	636	22	365	24	187	219	131	207	503
Y-T-D Tot	48	636	22	365	24	187	219	131	207	503
NC YTD Tot*	1	53	0	0	1	27	1	29	2	56

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	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	78	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	4	324	0	0	0	0
110030	0	0	0	0	0	0	1	65	2	163
110050	0	0	2	465	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	19	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	14	152
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	6	97	0	0	0	0	1	11
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	2	8
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	28
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	82	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	2	170
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	25	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	1	24
700080	0	0	0	0	0	0	4	482	1	3
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	11	128
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	9	208
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	45
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	33	0	0	0	0	12	119
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	14	0	0	1	4	18	120
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	6	67
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	599	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	2	1929
405060	0	0	0	0	0	0	0	0	0	0
500050	2	50	0	0	0	0	0	0	0	0
500090	0	0	3	72	0	0	4	72	8	104
9000000001	1	79	0	0	0	0	1	8	1	13
9800000001	14	33	51	365	0	0	0	0	29	516
9900000001	5	7	103	125	0	0	30	36	379	462
Month Tot	22	168	173	1292	5	923	42	749	506	4274
Y-T-D Tot	22	168	173	1292	5	923	42	749	506	4274
NC YTD Tot*	2	50	3	543	4	324	1	65	3	187

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Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	43	1323	43	1323
8462100030	Headers and upsetters, including cold headers	2	1394	2	1394
100050	Forging or die stamping machines, and hammers, n.e.c.	9	1353	9	1353
210080	Bending, folding, straight. or flat. mach., incl presses, NC	9	1787	9	1787
290030	Press brakes, non-NC	6	101	6	101
290040	Bending rolls, non-NC	3	56	3	56
290050	Bending, folding, straight., or flat., n.e.c., non-NC	98	2308	98	2308
310080	Shearing machines, NC	5	429	5	429
390050	Shearing machines, non-NC	30	601	30	601
410080	Punching or notching mach., incl. comb. punch & shear, NC	10	1347	10	1347
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	63	2136	63	2136
910060	Hydraulic presses, NC	4	120	4	120
910090	Hydraulic presses, non-NC	95	1967	95	1967
990030	Presses, n.e.c., NC	13	635	13	635
990040	Presses, mechanical, non-NC	33	2269	33	2269
990060	Presses, n.e.c., non-NC	148	2427	148	2427
8463100080	Draw benches for bars, tubes, profiles, wire or the like	30	1176	30	1176
200080	Thread rolling machines	6	116	6	116
300080	Machines for working wire	63	2383	63	2383
900080	Metal forming machine tools, n.e.c.	89	2032	89	2032
9800000002	Used or rebuilt machine tools	300	5175	300	5175
99C0000002	Machine tools valued at less than $3,025	1569	1230	1569	1230

	TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
Forming Total			2628	32365
Y-T-D Forming Total	2628	32365		
NC Y-T-D Forming Total	41	4318		
Cutting and Forming Totals:				
Monthly Total			6801	75953
Y-T-D Total	6801	75953		
NC Y-T-D Total*	154	20994		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	57077	0	57077
2000000000	Parts for working rubber or plastics - heading 8477	0	23804	0	23804
2710003070	Quenching or cutting oils	0	448	0	448
8428900010	Industrial robots for lifting, handling, loading or unload	82	560	82	560
8431390090	Parts industrial robots, handling and loading - heading 8428	0	8292	0	8292
8456100000	Laser, light or photon beam for working any material	75	3424	75	3424
200000	Ultrasonic process for working any material	7	187	7	187
8477106010	Injection molding mach., for rubber or oth. thermosetting	17	1164	17	1164
106070	Injection molding machines, for thermoplastics	30	4555	30	4555
200005	Extruders; rubber or other thermosetting mat., single screw	7	557	7	557
200015	Extruders; rubber or thermosetting, other incl. multi. screw	22	1858	22	1858
200030	Extruders; thermoplastics, single screw	31	956	31	956
200060	Extruders; thermoplastics, other incl. multi. screw	14	3419	14	3419
300000	Blow molding machines	75	5132	75	5132
400000	Vacuum-molding and other thermoforming machines	51	473	51	473
510010	Machines for molding or retreading pneumatic tires	38	693	38	693
510090	Machines for molding or otherwise forming inner tubes	82	1187	82	1187
590000	Machines for molding or otherwise forming n.e.c.	129	1136	129	1136
800000	Machines for working rubber or plastics n.e.c.	305	6333	305	6333
8479899040	Industrial robots, n.e.c.	508	4651	508	4651
908040	Industrial robot parts	0	2127	0	2127
8537100030	Numerical controls for controlling machine tools	133	1926	133	1926
9024100000	Machines and appliances for testing metals	0	4419	0	4419
9031100000	Machines for balancing mechanical parts	0	3248	0	3248
300000	Profile projectors	0	194	0	194
9032810040	Industrial process control instr., hydraulic or pneumatic	68127	3728	68127	3728

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	3	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	133
210080	0	0	0	0	0	0	1	33	0	0
290030	0	0	0	0	0	0	0	0	5	60
290040	0	0	0	0	0	0	0	0	1	14
290050	0	0	0	0	0	0	0	0	59	1481
310080	0	0	0	0	0	0	0	0	1	33
390050	0	0	0	0	0	0	0	0	12	167
410080	0	0	0	0	0	0	0	0	2	415
490050	0	0	0	0	0	0	0	0	13	152
910060	0	0	0	0	0	0	0	0	0	0
910090	3	23	0	0	0	0	0	0	2	134
990030	0	0	0	0	0	0	0	0	1	16
990040	0	0	0	0	0	0	17	754	0	0
990060	0	0	0	0	0	0	1	20	4	47
8463100080	0	0	0	0	0	0	0	0	7	754
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	42	5	40	6	230
900080	5	90	0	0	0	0	0	0	4	71
9800000002	7	40	0	0	1	5	2	40	38	1276
9900000002	12	12	0	0	45	29	25	21	121	105
Month Tot	27	164	0	0	50	79	51	908	277	5088
Y-T-D Tot	27	164	0	0	50	79	51	908	277	5088
NC YTD Tot	0	0	0	0	0	0	1	33	4	464
C&F Month	116	1162	9	10	76	1055	71	1255	678	9167
C&F Y-T-D	116	1162	9	10	76	1055	71	1255	678	9167
C&F NC YTD*	1	506	0	0	7	831	1	73	17	2275

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	603	0	75	0	455	0	1660	0	11000
2000000000	0	688	0	1158	0	134	0	700	0	5130
2710003070	0	0	0	0	0	0	0	18	0	90
8428900010	0	0	0	0	0	0	0	0	44	498
8431390090	0	285	0	7	0	1181	0	6	0	1291
8456100000	1	21	0	0	1	18	0	0	1	20
200000	0	0	0	0	2	54	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	4	139
106070	0	0	0	0	0	0	0	0	7	1211
200005	0	0	0	0	0	0	0	0	2	214
200015	0	0	0	0	0	0	0	0	13	1263
200030	2	124	0	0	0	0	0	0	0	0
200060	0	0	0	0	1	1776	0	0	3	671
300000	0	0	0	0	0	0	0	0	1	503
400000	0	0	0	0	0	0	0	0	13	117
510010	0	0	0	0	13	66	2	45	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	2	4	0	0	2	67
800000	1	14	0	0	0	0	0	0	102	2220
8479899040	1	7	0	0	0	0	0	0	386	2310
908040	0	20	0	0	0	0	0	0	0	661
8537100030	1	14	0	0	2	25	0	0	11	114
9024100000	0	83	0	0	0	62	0	109	0	409
9031100000	0	33	0	0	0	0	0	0	0	845
300000	0	0	0	0	0	0	0	0	0	10
9032810040	236	27	1211	61	870	43	55	29	1896	268

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	916	0	0	4	25	7	78	0	0
8462100030	0	0	0	0	1	236	0	0	0	0
100050	0	0	2	146	4	641	0	0	0	0
210080	1	578	0	0	4	591	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	64	1	37	5	110	2	9	4	76
310080	0	0	0	0	0	0	0	0	0	0
390050	2	127	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	7	102	0	0	7	29
910060	1	8	0	0	0	0	0	0	0	0
910090	1	31	0	0	13	719	0	0	0	0
990030	0	0	0	0	11	563	0	0	0	0
990040	0	0	0	0	11	969	0	0	0	0
990060	0	0	9	254	1	206	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	46	25	1262	0	0	0	0
900080	0	0	0	0	13	521	6	196	1	238
9800000002	0	0	12	231	18	185	0	0	0	0
9900000002	0	0	80	69	166	78	0	0	18	15
Month Tot	9	1725	109	784	283	6207	15	283	30	359
Y-T-D Tot	9	1725	109	784	283	6207	15	283	30	359
NC YTD Tot	2	586	0	0	15	1153	0	0	0	0
C&F Month	36	3080	263	3920	452	15035	99	2081	31	374
C&F Y-T-D	36	3080	263	3920	452	15035	99	2081	31	374
C&F NC YTD*	9	1204	10	1414	28	7927	0	0	0	0

Other Manufacturing Technology

1000000000	0	342	0	2341	0	7612	0	194	0	246
2000000000	0	9	0	279	0	1484	0	281	0	36
2710003070	0	17	0	0	0	9	0	5	0	42
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	255	0	223	0	23	0	216
8456100000	0	0	1	12	4	227	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	4	290	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	3	99	0	0	0	0
200060	0	0	0	0	2	75	0	0	0	0
300000	0	0	3	1459	10	181	0	0	0	0
400000	0	0	23	200	1	3	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	4	63	10	59	5	92	0	0	0	0
800000	30	475	4	200	2	116	1	24	0	0
8479899040	5	28	7	1061	46	346	0	0	0	0
908040	0	0	0	65	0	139	0	0	0	0
8537100030	4	64	12	188	16	249	0	0	0	0
9024100000	0	99	0	82	0	234	0	19	0	23
9031100000	0	144	0	0	0	3	0	637	0	3
300000	0	0	0	3	0	23	0	0	0	0
9032810040	4	4	1841	157	8829	488	118	23	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	17	183	1	8
8462100030	0	0	1	1158	0	0	0	0	0	0
100050	1	390	1	42	0	0	0	0	0	0
210080	0	0	1	32	1	500	0	0	1	53
290030	0	0	1	41	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	13
290050	0	0	6	25	0	0	0	0	12	161
310080	0	0	0	0	0	0	0	0	2	286
390050	0	0	1	55	11	188	0	0	1	23
410080	0	0	0	0	4	262	0	0	2	461
490050	1	3	11	228	0	0	0	0	11	224
910060	0	0	0	0	2	104	0	0	1	8
910090	0	0	0	0	1	70	0	0	65	629
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	2	107	0	0	0	0	0	0
990060	1	22	18	666	0	0	0	0	107	1055
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	2	60	0	0	0	0	4	56
300080	5	236	2	89	2	32	0	0	4	96
900080	0	0	18	180	0	0	0	0	12	115
9800000002	29	558	5	38	31	437	0	0	94	651
9900000002	9	8	30	25	85	72	0	0	232	218
Month Tot	46	1216	99	2747	137	1665	17	183	550	4056
Y-T-D Tot	46	1216	99	2747	137	1665	17	183	550	4056
NC YTD Tot	0	0	1	32	7	866	0	0	6	807
C&F Month	293	3435	662	6977	664	4136	20	222	1135	7912
C&F Y-T-D	293	3435	662	6977	664	4136	20	222	1135	7912
C&F NC YTD*	3	456	31	1795	7	866	0	0	17	1938

Other Manufacturing Technology

1000000000	0	3072	0	4551	0	4059	0	239	0	3170
2000000000	0	262	0	835	0	1353	0	225	0	2354
2710003070	0	10	0	56	0	12	0	0	0	40
8428900010	1	15	0	0	0	0	0	0	0	0
8431390090	0	14	0	250	0	0	0	66	0	134
8456100000	0	0	18	1997	0	0	0	0	0	0
200000	1	12	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	8	636
106070	0	0	7	856	0	0	0	0	10	2093
200005	0	0	0	0	0	0	0	0	4	234
200015	0	0	7	378	0	0	0	0	2	216
200030	0	0	0	0	10	259	0	0	13	397
200060	0	0	5	175	0	0	0	0	0	0
300000	0	0	0	0	21	386	0	0	21	707
400000	0	0	0	0	0	0	0	0	12	132
510010	5	134	0	0	0	0	0	0	13	336
510090	0	0	0	0	11	266	0	0	5	55
590000	6	93	77	636	1	9	7	11	1	3
800000	0	0	2	28	1	11	0	0	42	878
8479899040	0	0	14	90	0	0	0	0	3	140
908040	0	27	0	521	0	0	0	5	0	141
8537100030	2	36	4	44	9	108	1	11	2	51
9024100000	0	285	0	560	0	88	0	0	0	282
9031100000	0	5	0	13	0	938	0	0	0	355
300000	0	0	0	41	0	0	0	0	0	0
9032810040	4486	287	1215	96	2883	144	2	5	235	77

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	8	93	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	1	66	1	44	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	6	49	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	40	0	0	0	0	0	0
990060	0	0	2	51	0	0	2	11	0	0
8463100080	0	0	1	6	0	0	11	281	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	16	1	25	0	0
900080	6	81	1	13	0	0	0	0	0	0
9800000002	0	0	3	52	0	0	0	0	0	0
9900000002	20	23	48	41	4	3	54	49	8	7
Month Tot	27	169	71	388	5	19	68	365	8	7
Y-T-D Tot	27	169	71	388	5	19	68	365	8	7
NC YTD Tot	1	66	1	44	0	0	0	0	0	0
C&F Month	75	806	93	754	29	206	287	496	215	510
C&F Y-T-D	75	806	93	754	29	206	287	496	215	510
C&F NC YTD*	2	119	1	44	1	27	1	29	2	56

Other Manufacturing Technology

1000000000	0	1222	0	1053	0	388	0	828	0	391
2000000000	0	263	0	111	0	37	0	126	0	1376
2710003070	0	0	0	3	0	0	0	0	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	34	0	129	0	37	0	0	0	276
8456100000	0	0	0	0	0	0	0	0	1	47
200000	0	0	1	15	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	1	680	0	0	0	0	0	0
300000	0	0	0	0	0	0	3	6	0	0
400000	1	15	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	17	0	0	1	14	1	8
800000	0	0	7	50	0	0	0	0	1	120
8479899040	0	0	1	14	0	0	20	209	0	0
908040	0	0	0	0	0	20	0	65	0	23
8537100030	1	12	11	172	6	51	0	0	1	14
9024100000	0	33	0	181	0	30	0	19	0	52
9031100000	0	0	0	109	0	0	0	0	0	15
300000	0	72	0	4	0	0	0	0	0	4
9032810040	11674	605	5415_	295	4544	234	3634	182	3	3

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	18
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	30
290050	0	0	2	37	0	0	0	0	5	308
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	41
410080	0	0	2	209	0	0	0	0	0	0
490050	0	0	3	1258	0	0	0	0	4	91
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	128	0	0	0	0	9	233
990030	0	0	0	0	0	0	0	0	1	57
990040	0	0	0	0	0	0	0	0	2	399
990060	0	0	0	0	0	0	0	0	3	95
8463100080	2	13	6	82	0	0	0	0	3	40
200080	0	0	0	0	0	0	0	0	0	0
300080	1	85	0	0	0	0	0	0	4	185
900080	1	14	13	321	0	0	3	35	6	156
9800000002	9	30	6	38	0	0	1	50	44	1545
9900000002	14	13	98	76	0	0	6	5	494	362
Month Tot	27	156	131	2149	0	0	10	90	581	3560
Y-T-D Tot	27	156	131	2149	0	0	10	90	581	3560
NC YTD Tot	0	0	2	209	0	0	0	0	1	57
C&F Month	49	323	304	3441	5	923	52	839	1087	7834
C&F Y-T-D	49	323	304	3441	5	923	52	839	1087	7834
C&F NC YTD*	2	50	5	752	4	324	1	65	4	243

Other Manufacturing Technology

1000000000	0	204	0	4827	0	107	0	976	0	7460
2000000000	0	243	0	962	0	0	0	339	0	5420
2710003070	0	0	0	15	0	0	0	4	0	126
8428900010	0	0	3	28	0	0	0	0	34	20
8431390090	0	1007	0	571	0	49	0	117	0	2122
8456100000	0	0	1	15	0	0	15	347	32	720
200000	0	0	0	0	0	0	0	0	3	105
8477106010	0	0	0	0	0	0	0	0	5	389
106070	0	0	2	105	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	1	110
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	3	76
200060	0	0	2	42	0	0	0	0	0	0
300000	11	212	3	1330	0	0	0	0	2	347
400000	0	0	0	0	0	0	0	0	1	5
510010	0	0	0	0	0	0	0	0	5	113
510090	29	25	4	110	0	0	0	0	33	731
590000	0	0	8	24	0	0	0	0	3	35
800000	19	305	53	1259	0	0	0	0	40	634
8479899040	0	0	23	373	0	0	0	0	2	73
908040	0	0	0	413	0	0	0	3	0	23
8537100030	2	25	40	633	0	0	0	0	8	114
9024100000	0	0	0	1100	0	68	0	0	0	602
9031100000	0	0	0	38	0	0	0	30	0	79
300000	0	0	0	6	0	0	0	0	0	30
9032810040	10980	34	5612	436	0	0	137	7	2247	222

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	4	74	2	53	6	127
Finland	1	13	9	207	10	219
Greece	0	0	213	184	213	184
Hungary	0	0	0	0	0	0
Iceland	0	0	9	8	9	8
Ireland	18	188	1	13	19	201
Luxembourg	2	3	0	0	2	3
Norway	6	58	67	34	73	92
Poland	0	0	0	0	0	0
Portugal	2	18	0	0	2	18
Romania	5	175	0	0	5	175
Sweden	71	57	72	166	143	222
Turkey	0	0	3	113	3	113
Yugoslavia	2	24	1	30	3	54
Oth Europe	13	39	0	0	13	39
TOTAL	1198	18985	1096	11796	2294	30782
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	1	15	1	15
Barbados	0	0	6	75	6	75
Belize	0	0	0	0	0	0
Bermuda	0	0	5	4	5	4
Costa Rica	4	165	18	40	22	205
Dominican Rep	12	7	0	0	12	7
El Salvador	0	0	3	95	3	95
Guatemala	1	11	1	3	2	14
Haiti	0	0	2	9	2	9
Honduras	21	112	0	0	21	112
Jamaica	0	0	0	0	0	0
Panama	8	5	11	9	19	15
Trinidad	1	28	56	48	57	77
Oth N & C Am.	0	0	0	0	0	0
TOTAL	1033	8264	930	9442	1963	17707
SOUTH AMERICA						
Argentina	13	2098	2	61	15	2159
Bolivia	8	5	0	0	8	5
Chile	40	400	5	117	45	517
Colombia	27	77	18	163	45	240
Ecuador	5	12	2	37	7	49
Paraguay	0	0	0	0	0	0
Peru	12	55	5	9	17	64
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	167	3741	93	1385	260	5126
OCEANIA						
New Zealand	0	0	6	11	6	11
Oth Oceania	0	0	0	0	0	0
TOTAL	89	998	33	175	122	1174

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	152	327	7	1329	159	1656
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	0	0	8	80	8	80
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	3	7	0	0	3	7
Pakistan	0	0	0	0	0	0
Philippines	22	83	4	3	26	87
Qatar	0	0	0	0	0	0
Saudi Arabia	22	67	24	534	46	600
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	10	24	0	0	10	24
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1665	11453	456	9457	2121	20910
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	3	61	2	13	5	74
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	1	20	0	0	1	20
Mauritius	0	0	0	0	0	0
Morocco	0	0	14	12	14	12
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	16	52	4	83	20	135
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	13	0	0	1	13
Oth Africa	0	0	0	0	0	0
TOTAL	21	146	20	109	41	255

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: April 3, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	60	2807	60	2807
301050	Electro-discharge machines, n.e.c., NC	15	1191	15	1191
301070	Electro-discharge machines, n.e.c., non-NC	111	541	111	541
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	196	16615	196	16615
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	20	2987	20	2987
100035	Horizontal machining centers, ATC	60	12115	60	12115
100045	Machining centers, n.e.c.	17	1878	17	1878
200010	Unit construction mach. (single station transfer), NC	8	419	8	419
200090	Unit construction mach. (single station transfer), non-NC	1	217	1	217
300010	Multi-station transfer machines, NC	2	1675	2	1675
300090	Multi-station transfer machines, non-NC	2	1820	2	1820
8458110010	Horizontal lathes, multiple spindle, NC	24	3935	24	3935
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	102	8224	102	8224
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	26	3930	26	3930
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	6	1421	6	1421
190030	Horizontal engine or toolroom lathes, non-NC	512	3903	512	3903
190050	Automatic bar and/or chucking mach., single spindle, non-NC	76	2609	76	2609
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	3	86	3	86
190090	Horizontal lathes, n.e.c., non-NC	70	1411	70	1411
911060	Vertical turret lathes, multiple spindle, NC	2	367	2	367
911080	Vertical turret lathes, n.e.c., NC	2	565	2	565
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	5	436	5	436
991050	Vertical turret lathes, non-NC	13	81	13	81
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	48	726	48	726
8459100000	Way-type unit head machines	1	58	1	58
210080	Other drilling machines, NC	25	1841	25	1841
290040	Drilling machines, multiple spindle, non-NC	6	913	6	913
290050	Drilling machines, radial, non-NC	20	310	20	310
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	1	6	1	6
290090	Drilling machines, n.e.c., non-NC	84	2215	84	2215
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	419	1	419
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	7	1097	7	1097
310070	Boring-milling machines, n.e.c., NC	5	41	5	41
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	7	340	7	340
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	10	282	10	282
400070	Boring machines, n.e.c., NC	6	271	6	271
400080	Boring machines, n.e.c., non-NC	39	762	39	762
510080	Milling machines, knee type, NC	118	1186	118	1186
590030	Milling machines, knee type, non-NC	145	1681	145	1681
610080	Milling machines, excluding knee type, n.e.c., NC	85	8363	85	8363
690050	Milling machines, profile, dup., or die sinking, non-NC	4	17	4	17
690070	Milling machines, bed type, non-NC	9	250	9	250
690090	Milling machines, n.e.c., non-NC	88	1276	88	1276
700020	Threading or tapping machines, n.e.c., NC	20	1071	20	1071
700080	Threading or tapping machines, n.e.c., non-NC	6	396	6	396
8460110080	Flat surface grinding machines, NC	12	738	12	738
190010	Flat surface grinding mach., recip.-table type, non-NC	53	728	53	728
190050	Flat surface grinding machines, n.e.c., non-NC	84	1364	84	1364
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	61	7466	61	7466
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	57	1029	57	1029
290030	Grinding machines, internal cylindrical, non-NC	21	259	21	259
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	91	2250	91	2250
310080	Sharpening machines (tool & cutter grinding), NC	7	416	7	416
390050	Sharpening machines (tool or cutter grinding), non-NC	141	1637	141	1637
400060	Honing or lapping machines, NC	6	945	6	945
400080	Honing or lapping machines, non-NC	27	1180	27	1180
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	2	22	2	22
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	100	5108	100	5108
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	0	0	0	0
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	1	23	1	23
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	4	435	4	435
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	13	3575	13	3575
401040	Gear shapers	15	927	15	927
401060	Gear cutting machines, n.e.c.	4	1825	4	1825
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	2	921	2	921
500050	Sawing or cutting-off machines, NC	26	137	26	137
500090	Sawing or cutting-off machines, non-NC	166	2530	166	2530
9000000001	Metal cutting machine tools, n.e.c.	39	2239	39	2239
9800000001	Used or rebuilt machine tools	155	2904	155	2904
9900000001	Machine tools valued at less than $3,025	69216	7162	69216	7162
	Cutting Total			72371	138570
	Y-T-D Cutting Total	72371	138570		
	NC Y-T-D Cutting Total	928	82836		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	2	377
301070	0	0	0	0	0	0	0	0	2	99
8457100015	0	0	0	0	0	0	0	0	6	847
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	5	848
100045	0	0	0	0	1	22	0	0	7	1256
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1675
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	4	391	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	291	0	0
110090	0	0	0	0	0	0	0	0	2	420
190030	0	0	12	100	0	0	0	0	0	0
190050	0	0	4	81	0	0	0	0	3	1608
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	1	21	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	30	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	24	164	0	0	0	0	10	55
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	598
290040	0	0	0	0	1	3	0	0	0	0
290050	0	0	2	25	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	35	1	1208	1	216
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	2	224
310070	0	0	0	0	2	15	0	0	3	26
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	4	59	0	0	0	0
400080	0	0	0	0	3	40	26	555	5	19
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	3	364	1	10
610080	0	0	0	0	0	0	0	0	4	4705
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	4	355
700020	0	0	0	0	0	0	0	0	1	15
700080	1	5	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	11	714
190010	0	0	9	195	0	0	0	0	0	0
190050	0	0	0	0	4	13	0	0	2	509
210080	0	0	0	0	0	0	0	0	8	435
290010	0	0	0	0	13	136	0	0	16	49
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	16	57	0	0	25	658
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	3	11	1	30	88	1067
400060	0	0	0	0	0	0	0	0	1	78
400080	0	0	0	0	5	55	0	0	7	380
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	5	13	1956
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	7	3082
401040	0	0	0	0	0	0	0	0	1	700
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	755	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	17	85
500090	0	0	0	0	22	311	0	0	70	753
9000000001	0	0	0	0	1	7	0	0	7	419
9800000001	2	9	0	0	8	208	1	6	12	667
9900000001	0	0	0	0	30	57	54	92	120	143
Month Tot	4	768	56	976	117	1059	90	2550	467	25046
Y-T-D Tot	4	768	56	976	117	1059	90	2550	467	25046
NC YTD Tot	0	0	4	391	9	126	3	291	75	12563

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	10	1130	0	0	0	0	0	0
301050	0	0	11	745	0	0	0	0	0	0
301070	0	0	2	44	0	0	0	0	0	0
8457100015	0	0	124	11448	0	0	6	377	0	0
100025	0	0	9	1602	0	0	0	0	0	0
100035	0	0	55	11267	0	0	0	0	0	0
100045	0	0	5	351	4	249	0	0	0	0
200010	0	0	0	0	8	419	0	0	0	0
200090	0	0	1	217	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	19	2913	0	0	0	0	0	0
110030	1	124	85	7229	2	112	0	0	0	0
110050	0	0	23	3639	0	0	0	0	0	0
110090	0	0	4	1000	0	0	0	0	0	0
190030	0	0	1	6	0	0	22	280	29	235
190050	0	0	1	60	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	5	159	0	0	0	0	0	0
911060	0	0	2	367	0	0	0	0	0	0
911080	0	0	1	443	1	122	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	3	405	0	0	0	0	0	0
991050	8	34	1	33	0	0	0	0	0	0
995090	1	258	4	82	1	71	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	23	1243	0	0	0	0	0	0
290040	0	0	5	909	0	0	0	0	0	0
290050	2	44	4	113	0	0	0	0	4	24
290070	0	0	0	0	0	0	0	0	1	6
290090	2	51	2	300	0	0	0	0	74	385
310010	0	0	1	419	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	256	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	7	106	2	172	0	0	0	0	0	0
400070	2	212	0	0	0	0	0	0	0	0
400080	2	13	3	136	0	0	0	0	0	0
510080	1	397	0	0	0	0	0	0	114	767
590030	1	29	0	0	0	0	0	0	70	656
610080	0	0	4	362	0	0	2	84	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	152	0	0	0	0	0	0
690090	0	0	2	138	0	0	0	0	0	0
700020	0	0	19	1056	0	0	0	0	0	0
700080	0	0	4	284	0	0	0	0	1	108
8460110080	1	24	0	0	0	0	0	0	0	0
190010	0	0	3	125	0	0	33	355	0	0
190050	0	0	1	8	0	0	0	0	0	0
210080	0	0	49	5761	0	0	0	0	0	0
290010	0	0	4	158	0	0	0	0	0	0
290030	0	0	1	114	0	0	0	0	0	0
290050	0	0	11	1233	0	0	0	0	0	0
310080	0	0	2	283	0	0	0	0	0	0
390050	2	17	10	70	0	0	0	0	0	0
400060	0	0	5	867	0	0	0	0	0	0
400080	0	0	4	25	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	21	418	44	1259	0	0	0	0	3	261
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	23	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	421	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	2	317	4	176	0	0	0	0
401040	0	0	14	227	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	166	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	258	23	968	0	0	0	0	0	0
9000000001	9	48	19	1687	0	0	0	0	0	0
9800000001	31	125	32	635	0	0	0	0	1	9
9900000001	3049	608	2848	461	1636	149	116	18	27	4
Month Tot	3144	2766	3514	63490	1656	1298	179	1114	324	2455
Y-T-D Tot	3144	2766	3514	63490	1656	1298	179	1114	324	2455
NC YTD Tot	5	757	454	52530	15	902	8	461	114	767

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	3	470	17	89	0	0	30	1117
301050	0	0	2	69	0	0	0	0	0	0
301070	2	23	10	226	8	65	0	0	87	83
8457100015	0	0	0	0	44	3008	9	697	7	238
100025	0	0	0	0	8	1254	0	0	3	131
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	1	133	0	0	1	1687	0	0
8458110010	0	0	1	632	0	0	0	0	0	0
110030	0	0	0	0	7	387	3	244	4	128
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	256	1856	12	210	180	1217
190050	0	0	3	439	35	286	0	0	30	135
190070	0	0	0	0	1	33	0	0	2	53
190090	0	0	0	0	54	522	7	110	3	600
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	3	11	1	3	0	0
995090	0	0	0	0	4	29	4	67	0	0
8459100000	0	0	0	0	0	0	0	0	1	58
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	6	75	0	0	2	28
290070	0	0	0	0	0	0	0	0	0	0
290090	2	21	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	713	0	0	3	38	1	122
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	18	0	0	2	66
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	4
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	3	23	0	0	0	0
590030	0	0	0	0	48	290	18	316	4	15
610080	0	0	1	753	64	1039	1	1366	9	53
690050	0	0	0	0	4	17	0	0	0	0
690070	0	0	0	0	6	98	0	0	0	0
690090	0	0	0	0	8	188	0	0	74	594
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	8	53	0	0	0	0
190050	0	0	4	147	66	530	6	138	1	19
210080	2	1028	1	236	0	0	0	0	1	6
290010	0	0	16	438	3	102	5	145	0	0
290030	0	0	0	0	8	45	0	0	12	100
290050	0	0	4	40	29	186	1	35	5	42
310080	0	0	0	0	0	0	0	0	5	133
390050	0	0	5	202	2	12	25	169	5	58
400060	0	0	0	0	0	0	0	0	0	0
400080	2	600	1	13	0	0	8	108	0	0
900060	0	0	0	0	0	0	0	0	2	22
900080	2	882	0	0	2	12	5	98	9	217
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	3	14	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	4	1825
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	9	52	0	0	0	0
500090	0	0	1	31	8	29	1	18	37	162
9000000001	0	0	0	0	3	78	0	0	0	0
9800000001	8	50	7	148	20	109	19	202	14	737
9900000001	608	460	14	6	56577	4173	17	22	4120	967
Month Tot	626	3064	75	4697	57315	14670	149	5685	4655	8931
Y-T-D Tot	626	3064	75	4697	57315	14670	149	5685	4655	8931
NC YTD Tot	2	1028	9	2873	152	5853	16	2345	62	1951

Please see notes on last page of the metal forming section.

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RELEASED: April 3, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	22	1144	22	1144
8462100030	Headers and upsetters, including cold headers	8	2034	8	2034
100050	Forging or die stamping machines, and hammers, n.e.c.	51	2994	51	2994
210080	Bending, folding, straight. or flat. mach., incl presses, NC	38	2997	38	2997
290030	Press brakes, non-NC	25	712	25	712
290040	Bending rolls, non-NC	12	299	12	299
290050	Bending, folding, straight., or flat., n.e.c., non-NC	114	2549	114	2549
310080	Shearing machines, NC	2	353	2	353
390050	Shearing machines, non-NC	23	944	23	944
410080	Punching or notching mach., incl. comb. punch & shear, NC	23	3973	23	3973
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	19	428	19	428
910060	Hydraulic presses, NC	3	2084	3	2084
910090	Hydraulic presses, non-NC	22	1084	22	1084
990030	Presses, n.e.c., NC	0	0	0	0
990035	Mechanical transfer presses, non-NC	1	10097	1	10097
990045	Mechanical presses, n.e.c., non-NC	14	285	14	285
990060	Presses, n.e.c., non-NC	32	2686	32	2686
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	2273	39	2273
200080	Thread rolling machines	4	361	4	361
300080	Machines for working wire	108	5728	108	5728
900080	Metal forming machine tools, n.e.c.	113	4280	113	4280
9800000002	Used or rebuilt machine tools	1478	2791	1478	2791
9900000002	Machine tools valued at less than $3,025	818	237	818	237
	Forming Total			2969	50334
	Y-T-D Forming Total	2969	50334		
	NC Y-T-D Forming Total	66	9407		
	Cutting and Forming Totals:				
	Monthly Total			75340	188905
	Y-T-D Total	75340	188905		
	NC Y-T-D Total	994	92243		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	46777	0	46777
2000000000	Parts for working rubber or plastics - heading 8477	0	29026	0	29026
2710003070	Quenching or cutting oils	0	39	0	39
8428900010	Industrial robots for lifting, handling, loading or unload	127	2737	127	2737
8431390080	Parts industrial robots, handling and loading - heading 8428	0	12271	0	12271
8456101010	Laser, light or photon beam for working metal, NC	12	2937	12	2937
101020	Laser, light or photon beam for working metal, non-NC	5	2019	5	2019
105000	Laser, light or photon beam for other materials	3	1053	3	1053
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	6	39	6	39
205000	Ultrasonic processes for working other materials	24	142	24	142
8477103000	Injection molding mach., for manufacturing shoes	0	0	0	0
106010	Injection molding mach., for rubber or oth. thermosetting	91	13548	91	13548
106050	Injection molding mach., for thermoplastics	168	15377	168	15377
200005	Extruders; rubber or other thermosetting mat., single screw	2	847	2	847
200015	Extruders; rubber or thermosetting, other incl. multi. screw	27	3062	27	3062
200035	Extruders; thermoplastics, single screw, less than 6.4cm	5	126	5	126
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	22	3072	22	3072
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	3	420	3	420
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	22	2101	22	2101
300000	Blow molding machines	19	5647	19	5647
400000	Vacuum-molding and other thermoforming machines	2	1140	2	1140
510010	Machines for molding or retreading pneumatic tires	60	913	60	913
510090	Machines for molding or otherwise forming inner tubes	9	307	9	307
590000	Machines for molding or otherwise forming n.e.c.	47	4478	47	4478
800000	Machines for working rubber or plastics n.e.c.	182	20850	182	20850
8479899040	Industrial robots, n.e.c.	230	6202	230	6202
908040	Industrial robot parts	0	2873	0	2873
8537100030	Numerical controls for controlling machine tools	372	2236	372	2236
9024100000	Machines and appliances for testing metals	0	961	0	961
9031100000	Machines for balancing mechanical parts	0	29	0	29
300000	Profile projectors	0	845	0	845
9032810020	Industrial process control instr., hydraulic	9583	212	9583	212
810060	Industrial process control instr., pneumatic	17627	221	17627	221

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	86	0	0	0	0
8462100030	1	73	0	0	0	0	0	0	2	638
100050	0	0	0	0	4	95	0	0	6	814
210080	0	0	0	0	2	300	0	0	3	567
290030	5	229	0	0	7	305	0	0	0	0
290040	0	0	0	0	9	147	0	0	0	0
290050	0	0	0	0	32	698	0	0	13	333
310080	0	0	0	0	0	0	0	0	0	0
390050	1	26	0	0	3	94	0	0	1	399
410080	0	0	0	0	0	0	0	0	3	964
490050	0	0	0	0	2	8	0	0	2	330
910060	0	0	0	0	0	0	0	0	1	1258
910090	0	0	0	0	8	342	4	13	1	261
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	9	639	0	0	2	16
8463100080	0	0	0	0	0	0	0	0	28	1282
200080	0	0	0	0	0	0	0	0	0	0
300080	6	419	3	39	7	255	0	0	10	711
900080	0	0	0	0	10	52	11	91	17	2021
9800000002	4	107	0	0	63	411	2	174	50	595
9900000002	0	0	0	0	29	20	0	0	11	17
Month Tot	17	854	3	39	187	3451	17	277	150	10207
Y-T-D Tot	17	854	3	39	187	3451	17	277	150	10207
NC YTD Tot	0	0	0	0	2	300	0	0	7	2790
C&F Month	21	1622	59	1015	304	4510	107	2828	617	35253
C&F Y-T-D	21	1622	59	1015	304	4510	107	2828	617	35253
C&F NC YTD	0	0	4	391	11	425	3	291	82	15352
Other Manufacturing Technology										
1000000000	0	508	0	72	0	7863	0	1122	0	10910
2000000000	0	58	0	0	0	4181	0	2067	0	13683
2710003070	0	0	0	0	0	2	0	0	0	0
8428900010	1	53	0	0	6	51	0	0	5	285
8431390080	0	0	0	1	0	1630	0	303	0	937
8456101010	0	0	0	0	0	0	0	0	1	675
101020	0	0	0	0	0	0	0	0	4	264
105000	0	0	0	0	1	125	0	0	1	512
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	1	170	2	344	10	2882
106050	0	0	0	0	23	3325	0	0	50	3735
200005	0	0	0	0	0	0	0	0	1	748
200015	0	0	0	0	1	3	0	0	13	2129
200035	0	0	0	0	5	126	0	0	0	0
200045	0	0	0	0	0	0	0	0	7	2352
200055	0	0	0	0	0	0	0	0	1	411
200065	0	0	0	0	2	151	0	0	3	457
300000	0	0	0	0	9	18	4	2114	2	2970
400000	0	0	0	0	0	0	0	0	1	464
510010	0	0	0	0	1	27	3	378	0	0
510090	0	0	0	0	0	0	0	0	1	90
590000	1	350	0	0	11	650	0	0	4	1205
800000	13	48	0	0	19	138	0	0	57	7455
8479899040	0	0	0	0	1	18	0	0	1	108
908040	0	0	0	0	0	70	0	2	0	1155
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	9	0	0	0	33	0	0	0	13
9031100000	0	0	0	0	0	1	0	0	0	8
300000	0	0	0	0	0	0	0	0	0	183
9032810020	0	0	0	0	2	14	0	0	26	72
810060	0	0	0	0	11164	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	11	233	1	65	0	0	0	0	0	0
8462100030	5	1323	0	0	0	0	0	0	0	0
100050	0	0	28	1071	0	0	0	0	0	0
210080	4	536	22	1196	0	0	0	0	0	0
290030	0	0	2	27	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	117	47	877	0	0	0	0	1	56
310080	0	0	2	353	0	0	0	0	0	0
390050	1	29	5	263	0	0	0	0	1	27
410080	0	0	20	3008	0	0	0	0	0	0
490050	11	61	2	18	0	0	0	0	0	0
910060	0	0	2	826	0	0	0	0	0	0
910090	2	356	4	4	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	10097	0	0	0	0	0	0
990045	4	45	2	89	0	0	0	0	0	0
990060	3	321	10	1359	0	0	0	0	1	151
8463100080	2	6	9	985	0	0	0	0	0	0
200080	0	0	3	345	0	0	0	0	0	0
300080	3	166	72	3244	0	0	0	0	0	0
900080	5	932	7	185	0	0	0	0	30	337
9800000002	2	43	100	857	0	0	0	0	1	2
9900000002	40	15	105	12	0	0	0	0	10	7
Month Tot	97	4185	444	24881	0	0	0	0	44	579
Y-T-D Tot	97	4185	444	24881	0	0	0	0	44	579
NC YTD Tot	4	536	46	5384	0	0	0	0	0	0
C&F Month	3241	6951	3958	88371	1656	1298	179	1114	368	3034
C&F Y-T-D	3241	6951	3958	88371	1656	1298	179	1114	368	3034
C&F NC YTD	9	1293	500	57914	15	902	8	461	114	767

Other Manufacturing Technology

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1471	0	11626	0	92	0	105	0	142
2000000000	0	1785	0	2955	0	57	0	98	0	3
2710003070	0	0	0	37	0	0	0	0	0	0
8428900010	0	0	100	1246	0	0	0	0	0	0
8431390080	0	86	0	6466	0	0	0	3	0	4
8456101010	0	0	10	1779	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	6	39	0	0	0	0	0	0
205000	0	0	1	1	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	3	576	39	7134	0	0	0	0	0	0
106050	4	778	64	6013	2	165	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	2	230	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	1	1123	0	0	0	0	0	0
300000	0	0	3	513	0	0	0	0	0	0
400000	0	0	1	676	0	0	0	0	0	0
510010	0	0	11	457	0	0	0	0	0	0
510090	0	0	5	153	0	0	0	0	0	0
590000	0	0	14	2052	0	0	0	0	0	0
800000	12	1377	17	6842	2	39	0	0	0	0
8479899040	2	525	185	5095	0	0	0	0	0	0
908040	0	53	0	1036	0	0	0	0	0	0
8537100030	0	0	308	2217	0	0	0	0	0	0
9024100000	0	93	0	118	0	0	0	0	0	0
9031100000	0	0	0	10	0	0	0	0	0	0
300000	0	0	0	395	0	0	0	0	0	0
9032810020	0	0	0	0	1900	13	0	0	0	0
810060	2	12	23	6	0	0	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	523	0	0	1	20	6	218
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	349	2	85	1	12	7	568
210080	0	0	1	15	0	0	1	186	5	197
290030	0	0	0	0	0	0	0	0	11	151
290040	1	52	0	0	1	24	1	77	0	[illegible]
290050	9	274	1	24	3	100	1	31	3	[illegible]
310080	0	0	0	0	0	0	0	0	0	0
390050	1	29	0	0	0	0	9	67	1	10
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	2	11	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	2	0	0	0	0	2	106
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	1	115	7	35	0	0
990060	1	27	1	10	3	83	2	79	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	1	16	0	0	0	0
300080	0	0	3	736	1	73	3	86	0	0
900080	0	0	3	231	2	27	15	198	13	205
9800000002	0	0	73	38	1	2	1180	558	2	6
9900000002	0	0	28	18	532	108	2	5	61	34
Month Tot	12	383	115	1947	549	644	1223	1354	111	1534
Y-T-D Tot	12	383	115	1947	549	644	1223	1354	111	1534
NC YTD Tot	0	0	1	15	0	0	1	186	5	197
C&F Month	638	3447	190	6644	57864	15314	1372	7039	4766	10466
C&F Y-T-D	638	3447	190	6644	57864	15314	1372	7039	4766	10466
C&F NC YTD	2	1028	10	2888	152	5853	17	2531	67	2148

Other Manufacturing Technology

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	723	0	2884	0	1911	0	3644	0	3703
2000000000	0	55	0	1249	0	479	0	849	0	1506
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	9	177	0	0	0	0	0	0	6	924
8431390080	0	255	0	314	0	183	0	1169	0	919
8456101010	0	0	0	0	0	0	1	483	0	0
101020	0	0	0	0	0	0	0	0	1	1755
105000	0	0	0	0	0	0	0	0	1	416
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	4	7	0	0	18	109	1	24
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	23	1275	8	332	1	67	4	768
106050	0	0	3	390	8	285	4	52	10	635
200005	0	0	0	0	0	0	1	99	0	0
200015	0	0	0	0	5	111	0	0	8	819
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	12	94	1	397
200055	0	0	0	0	1	8	0	0	1	2
200065	0	0	0	0	13	340	0	0	3	30
300000	0	0	0	0	0	0	0	0	1	33
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	45	52
510090	0	0	0	0	2	50	1	14	0	0
590000	0	0	9	180	2	13	0	0	6	28
800000	0	0	6	1620	15	983	4	41	37	2309
8479899040	3	136	0	0	0	0	1	26	37	294
908040	0	44	0	158	0	0	0	208	0	147
8537100030	18	11	0	0	28	3	0	0	18	6
9024100000	0	541	0	37	0	0	0	107	0	9
9031100000	0	8	0	0	0	0	0	0	0	2
300000	0	0	0	0	0	0	0	198	0	69
9032810020	0	0	264	18	0	0	0	0	7391	95
810060	5075	128	0	0	1056	3	5	2	302	54

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	311	802	5	90	316	891
Bulgaria	0	0	0	0	0	0
Czechoslovakia	20	118	0	0	20	118
Denmark	67	238	14	158	81	396
Finland	36	23	5	197	41	220
Hungary	3	73	0	0	3	73
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	220	2150	1	97	221	2247
Norway	0	0	3	55	3	55
Poland	8	233	0	0	8	233
Portugal	0	0	0	0	0	0
Romania	1	5	0	0	1	5
USSR	5	151	0	0	5	151
Yugoslavia	85	391	3	543	88	934
Oth Europe	10	116	0	0	10	116
TOTAL	5645	51330	1706	20926	7351	72256
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	1	7	9	222	10	229
Oth N & C Am.	9	53	0	0	9	53
TOTAL	127	1119	196	3674	323	4792
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	56	976	3	39	59	1015
OCEANIA						
Australia	26	171	6	76	32	246
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	26	171	6	76	32	246

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	3808	2467	2	19	3810	2486
Hong Kong	1	87	15	4	16	91
India	7	28	2	31	9	59
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	1	2	1	14	2	17
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	34	1263	0	0	34	1263
Oth Asia	0	0	0	0	0	0
TOTAL	66516	84424	1013	25592	67529	110016
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	550	45	29	46	579
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	1	550	45	29	46	579

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL
No. 48-91 May 1, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – FEBRUARY 1991
(Values in Millions of U.S. Dollars)

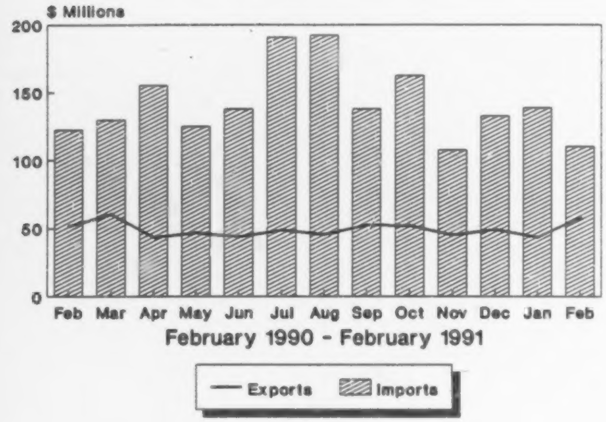
	Feb. 1991	Jan. 1991	Average Nov.-Jan.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 58.1	$ 43.6	$ 45.9	$101.7	$112.9	(9.9%)
Imports	$110.3	$138.6	$126.2	$248.8	$295.9	(15.9%)
Balance	($ 52.2)	($ 95.0)	($ 80.3)	($147.1)	($183.0)	(19.6%)
METAL FORMING MACHINE TOOLS						
Exports	$ 34.3	$ 32.4	$ 39.2	$ 66.7	$ 76.2	(12.5%)
Imports	$ 40.7	$ 50.3	$ 54.6	$ 91.0	$ 74.2	22.6%
Balance	($ 6.4)	($ 17.9)	($ 15.4)	($ 24.3)	$ 2.0	NM
MACHINE TOOL TOTAL						
Exports	$ 92.5	$ 76.0	$ 85.1	$168.4	$189.0	(10.9%)
Imports	$150.9	$188.9	$180.8	$339.8	$370.1	(8.2%)
Balance	($ 58.4)	($112.9)	($ 95.7)	($171.4)	($181.1)	(5.4%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 33.2	$ 21.0	$ 27.2	$ 54.2	$ 65.0	(16.6%)
Imports	$ 81.3	$ 92.2	$ 81.7	$173.5	$203.0	(14.5%)
Balance	($ 48.1)	($ 71.2)	($ 54.5)	($119.3)	($138.0)	(13.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$124.3	$141.5	$145.4	$265.8	$288.0	(7.7%)
Imports	$144.6	$182.5	$171.7	$327.1	$352.3	(7.2%)
Balance	($ 20.3)	($ 41.0)	($ 26.3)	($ 61.3)	($ 64.3)	(4.7%)

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NM = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

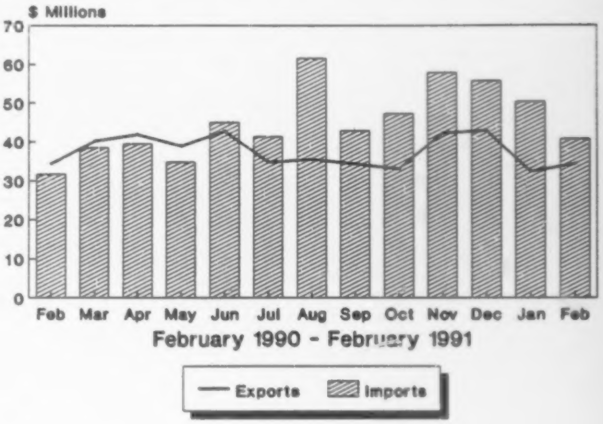
- U.S. machine tool exports in February rose 22% over January to $92.5 million, the highest monthly total since March 1990. Year-to-date exports are down 11% from last year.
- Machine tool imports in February were $150.9 million, down 20% from January's $188.9 million and the lowest monthly total since May 1988.
- The machine tool trade deficit of $58.4 million in February was the lowest since November 1984.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

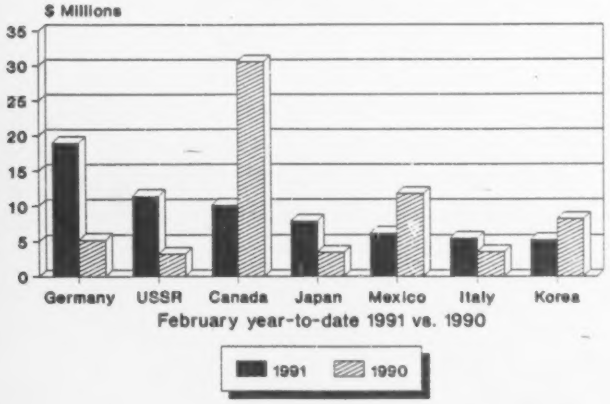
Exports

- Exports of metal cutting machines were $58.1 million in February, up 33% over January. Year-to-date exports of $101.7 million were down 10% from 1990.

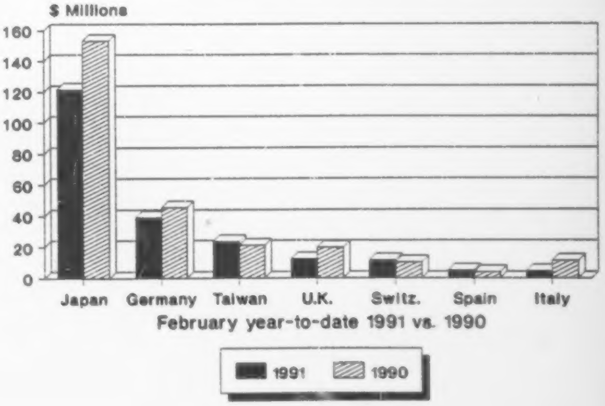
- The Soviet Union was the largest export market in February, courtesy of three transfer machines valued at $10.5 million. Exports to Germany were $10.2 million, for a year-to-date total of $19.0 million, more than triple last year.

- Exports of grinding machines rebounded to $10.3 million in February from $5.9 million in January; exports of machining centers more than doubled to $4.7 million in February from January.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports of metal cutting machines in February fell to $110.3 million from January's $138.6 million. Year-to-date imports were down 16% from last year.

- Imports of machining centers fell to $22.1 million in February from $33.6 million in January. Imports of milling machines plunged to $2.8 million in February from $12.8 million in January.

- Year-to-date imports from Japan ($121.7 million) were down 21% from last year; imports from Germany ($39.1 million) were down 14%.

METAL FORMING MACHINE TOOLS

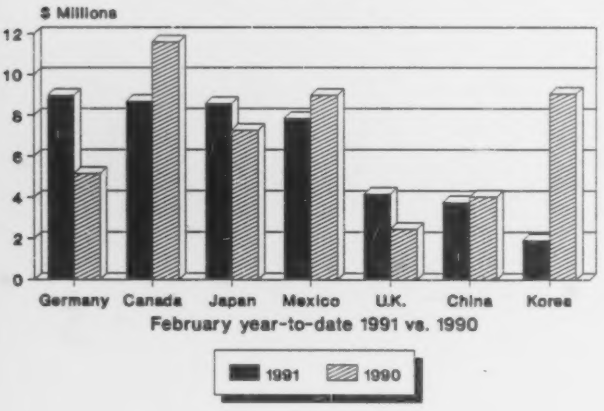
Exports

- Exports of metal forming machines in February rose slightly to $34.3 million from $32.4 million in January. Year-to-date exports were down 12% from last year.

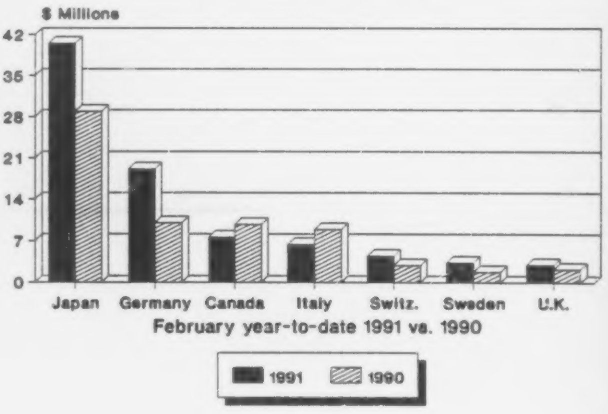
- The top year-to-date export markets: Germany ($9.0 million), Canada ($8.7 million) and Japan ($8.6 million).

- Year-to-date exports of presses ($13.2 million) and punching and shearing machines ($10.0 million) were down 29% and 30% respectively, from last year. Exports of bending and forming machines ($11.2 million) were up 20% over last year at this time.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Year-to-date imports of metal forming machines reached $91.0 million in February, up 23% over 1990. Imports in February fell to $40.7 million, down 19% from January.

- The top import sources in 1991 through February include Japan ($40.5 million, up 40% over 1990), Germany ($19.2 million, up 92%), Canada ($7.6 million, down 22%) and Italy ($6.4 million, down 29%).

- Year-to-date imports of presses ($25.3 million value, 389 units) were down 45% in unit terms but up 141% in value terms from 1990. Imports of bending and forming machines were up 4% in unit terms and up 23% in value terms from last year.

OTHER MANUFACTURING TECHNOLOGY

Exports

- Year-to-date exports of other manufacturing technology of $265.8 million were down from $288.0 million last year. Exports of machine tool parts and accessories so far in 1991 ($110.8 million) were down from last year's $119.4 million.

- Exports of injection molding machines totalled $2.9 million in February for a year-to-date total of $8.6 million. The top markets so far in 1991: Mexico ($3.7 million) and Canada ($2.4 million).

Imports

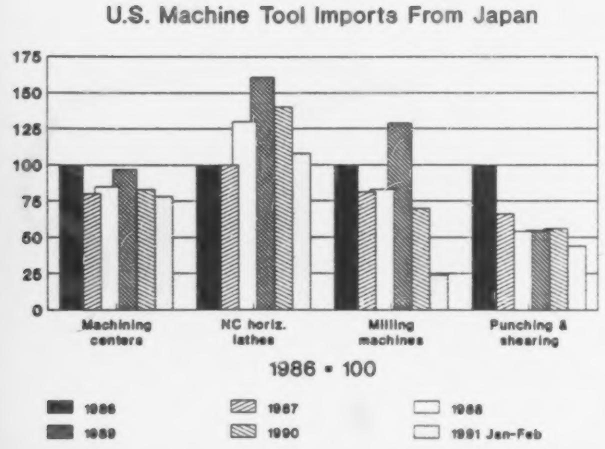
- Imports of machine tool parts and accessories totalled $89.0 million in 1991 through February, down from $100.7 million in 1990. Imports of blow molding machines were $9.2 million in 1991, up from $8.2 million last year.

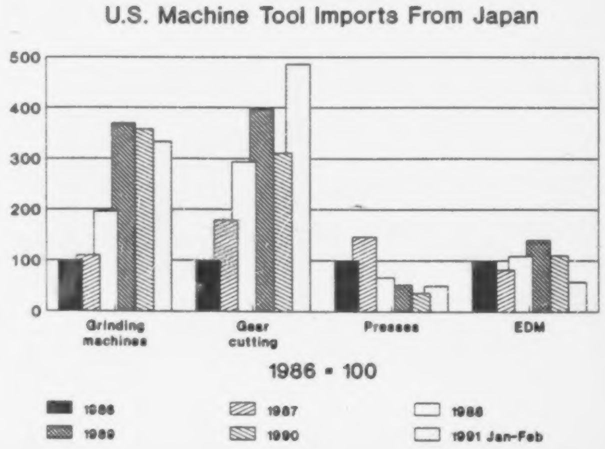
- Year-to-date imports of industrial robots and parts totalled $42.2 million through February. The comparable figure for 1990: $39.1 million.

MONTHLY FOCUS

The charts below show U.S. machine tool imports from Japan by value since 1986 for select machine categories, indexed to show relative growth. The chart on the left shows categories which are covered by voluntary restraint agreements with Japan -- import growth in these categories has been moderate or negative. The chart on the right shows select non-VRA categories. Imports of these machines have increased much more quickly. Imports of presses from Japan in 1986 and 1987 were unusually high, which explains the lower index numbers in later years for that category.

Two categories not shown on the right hand chart -- forging machines and station type machines -- have shown remarkable import growth since 1986. Imports of forging machines from Japan were $2.6 million in 1986, but $68.2 million and $37.1 million in 1989 and 1990 respectively. Imports of station type machines rose from $1.7 million in 1986 to $40.0 million in 1990.


U.S. Machine Tool Imports From Japan


U.S. Machine Tool Imports From Japan

1991 EXPORTS

METAL CUTTING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
West Germany	$10,184,699	$ 8,827,813	15.37%	$19,012,512	$5,165,845	268.04%
USSR	10,472,534	923,067	1,034.54	11,395,601	3,207,507	255.28
Canada	6,008,374	4,079,654	47.28	10,088,028	30,626,364	-67.06
Japan	3,606,994	4,230,011	-14.73	7,837,005	3,383,548	131.62
Mexico	2,262,432	3,855,967	-41.33	6,118,399	11,768,108	-48.01
Italy	3,222,563	2,218,427	45.26	5,440,990	3,496,743	55.60
Korea	2,708,494	2,471,187	9.60	5,179,681	8,147,493	-36.43
U.K.	3,135,990	1,291,592	142.80	4,427,582	12,379,843	-64.24
France	780,936	3,136,337	-75.10	3,917,273	2,878,703	36.08
China	2,005,072	1,355,450	47.93	3,360,522	1,502,814	123.62
India	1,515,489	1,797,948	-15.71	3,313,437	5,121,983	-35.31
Belgium	1,655,669	976,425	69.56	2,632,094	3,360,923	-21.69
Netherlands	1,186,314	636,422	86.40	1,822,736	713,687	155.40
Switzerland	1,540,372	131,021	1,075.67	1,671,393	878,543	90.25
Brazil	1,151,627	347,227	231.66	1,498,854	5,681,553	-73.62
Venezuela	667,127	748,551	-10.88	1,415,678	161,824	774.83
Australia	108,172	998,164	-89.16	1,106,336	3,769,878	-70.65
Singapore	669,978	365,392	83.36	1,035,370	1,310,329	-20.98
Taiwan	200,118	502,989	-60.21	703,107	2,050,213	-65.71
Thailand	248,246	167,845	47.90	416,091	237,073	75.51
Spain	61,080	187,092	-67.35	248,172	1,184,761	-79.05
Indonesia	33,600	15,125	122.15	48,725	87,869	-44.55
Malaysia	3,800	39,207	-90.31	43,007	265,288	-83.79
Austria	18,797	10,058	86.89	28,855	69,019	-58.19

METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
West Germany	$ 2,753,875	$ 6,206,872	-55.63%	$ 8,960,747	$ 5,159,937	73.66%
Canada	3,589,513	5,087,662	-29.45	8,677,175	11,591,822	-25.14
Japan	5,813,540	2,746,654	111.66	8,560,194	7,253,595	18.01
Mexico	3,796,173	4,056,278	-6.41	7,852,451	8,982,751	-12.58
U.K.	2,017,333	2,149,158	-6.13	4,166,491	2,442,182	70.61
China	2,046,901	1,724,628	18.69	3,771,529	4,030,771	-6.43
Korea	244,380	1,665,256	-85.32	1,909,636	9,049,145	-78.90
Italy	403,870	1,216,397	-66.80	1,620,267	1,770,946	-8.51
Netherlands	1,282,795	169,421	657.16	1,452,216	1,443,386	0.61
Taiwan	1,198,916	6,970	17,101.09	1,205,886	1,406,057	-14.24
France	405,202	783,532	-48.29	1,188,734	4,287,128	-72.27
Brazil	97,426	907,783	-89.27	1,005,209	182,767	449.99
Thailand	761,803	155,628	389.50	917,431	312,267	193.80
Singapore	458,667	388,168	18.16	846,835	948,324	-10.70
Malaysia	450,394	182,895	146.26	633,289	120,232	426.72
India	209,322	282,559	-25.92	491,881	3,134,435	-84.31
Switzerland	28,032	365,203	-92.32	393,235	595,044	-33.91
Indonesia	0	358,560	-100.00	358,560	6,965	5,048.03
Australia	182,734	164,091	11.36	346,825	449,266	-22.80
Venezuela	82,090	90,265	-9.06	172,355	242,873	-29.03
Spain	141,174	18,813	650.41	159,987	707,384	-77.38
Belgium	46,368	78,918	-41.25	125,286	90,008	39.19
Austria	83,602	0	NA	83,602	730,383	-88.55
USSR	0	0	NA	0	0	NA

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
West Germany	$12,938,574	$15,034,685	-13.94%	$27,973,259	$10,325,782	170.91%
Canada	9,597,887	9,167,316	4.70	18,765,203	42,218,186	-55.55
Japan	9,420,534	6,976,665	35.03	16,397,199	10,637,143	54.15
Mexico	6,058,605	7,912,245	-23.43	13,970,850	20,750,859	-32.67
USSR	10,472,534	923,067	1,034.54	11,395,601	3,207,507	255.28
U.K.	5,153,323	3,440,750	49.77	8,594,073	14,822,025	-42.02
China	4,051,973	3,080,078	31.55	7,132,051	5,533,585	28.89
Korea	2,952,874	4,136,443	-28.61	7,089,317	17,196,638	-58.77
Italy	3,626,433	3,434,824	5.58	7,061,257	5,267,689	34.05
France	1,186,138	3,919,869	-69.74	5,106,007	7,165,831	-28.75
India	1,724,811	2,080,507	-17.10	3,805,318	8,256,418	-53.91
Netherlands	2,469,109	805,843	206.40	3,274,952	2,157,073	51.82
Belgium	1,702,037	1,055,343	61.28	2,757,380	3,450,931	-20.10
Brazil	1,249,053	1,255,010	-0.47	2,504,063	5,864,320	-57.30
Switzerland	1,568,404	496,224	216.07	2,064,628	1,473,587	40.11
Taiwan	1,399,034	509,959	174.34	1,908,993	3,456,270	-44.77
Singapore	1,128,645	753,560	49.78	1,882,205	2,258,653	-16.67
Venezuela	749,217	838,816	-10.68	1,588,033	404,697	292.40
Australia	290,906	1,162,255	-74.97	1,453,161	4,219,144	-65.56
Thailand	1,010,049	323,473	212.25	1,333,522	549,340	142.75
Malaysia	454,194	222,102	104.50	676,296	385,520	75.42
Spain	202,254	205,905	-1.77	408,159	1,892,145	-78.43
Indonesia	33,600	373,685	-91.01	407,285	94,834	329.47
Austria	102,399	10,058	918.09	112,457	799,402	-85.93

1991 IMPORTS

METAL CUTTING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
Japan	$58,173,452	$63,490,334	-8.37%	$121,663,786	$153,080,137	-20.52%
West Germany	14,079,563	25,045,900	-43.78	39,125,463	45,721,538	-14.43
Taiwan	9,050,342	14,670,300	-38.31	23,720,642	21,289,716	11.42
U.K.	6,691,361	5,685,024	17.70	12,376,385	19,733,764	-37.28
Switzerland	6,924,518	4,696,812	47.43	11,621,330	10,220,636	13.70
Spain	2,314,406	2,455,208	-5.73	4,769,614	3,791,124	25.81
Italy	1,744,569	2,765,832	-36.92	4,510,401	11,224,813	-59.82
Sweden	1,403,180	3,064,111	-54.21	4,467,291	2,830,718	57.81
Korea	2,063,478	1,297,883	58.99	3,361,361	3,890,332	-13.60
Canada	2,173,091	1,058,518	105.30	3,231,609	4,101,831	-21.22
France	589,037	2,550,411	-76.90	3,139,448	3,304,277	-4.99
Singapore	735,823	1,114,025	-33.95	1,849,848	4,692,473	-60.58
Brazil	190,907	976,416	-80.45	1,167,323	1,998,633	-41.59
Belgium	34,048	768,044	-95.57	802,092	184,536	334.65

METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
Japan	$15,590,823	$24,880,673	-37.34%	$40,471,496	$28,922,713	39.93%
West Germany	8,957,809	10,206,658	-12.24	19,164,467	9,985,991	91.91
Canada	4,137,691	3,451,169	19.89	7,588,860	9,781,104	-22.41
Italy	2,177,188	4,185,027	-47.98	6,362,215	8,936,684	-28.81
Switzerland	2,467,453	1,946,715	26.75	4,414,168	2,884,124	53.05
Sweden	2,934,413	382,640	666.89	3,317,053	1,707,994	94.21
U.K.	1,602,076	1,354,132	18.31	2,956,208	2,243,958	31.74
Taiwan	1,123,609	643,687	74.56	1,767,296	1,907,751	-7.36
Belgium	425,159	853,913	-50.21	1,279,[illegible]	4,609,735	-72.25
Spain	336,142	579,193	-41.96	915,335	496,527	84.35
France	268,785	277,255	-3.05	546,040	289,461	88.64
Singapore	300,254	0	NA	300,254	0	NA
Brazil	0	38,940	-100.00	38,940	0	NA
Korea	29,384	0	NA	29,384	1,311	2,141.34

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	FEBRUARY	JANUARY	%CHANGE	FEB YTD'91	FEB YTD'90	%CHANGE
Japan	$73,764,275	$88,371,007	-16.53%	$162,135,282	$182,002,850	-10.92%
West Germany	23,037,372	35,252,558	-34.65	58,289,930	55,707,529	4.64
Taiwan	10,173,951	15,313,987	-33.56	25,487,938	23,197,467	9.87
Switzerland	9,391,971	6,643,527	41.37	16,035,498	13,104,760	22.36
U.K.	8,293,437	7,039,156	17.82	15,332,593	21,977,722	-30.24
Italy	3,921,757	6,950,859	-43.58	10,872,616	20,161,497	-46.07
Canada	6,310,782	4,509,687	39.94	10,820,469	13,882,935	-22.06
Sweden	4,337,593	3,446,751	25.85	7,784,344	4,538,712	71.51
Spain	2,650,548	3,034,401	-12.65	5,684,949	4,287,651	32.59
France	857,822	2,827,666	-69.66	3,685,488	3,593,738	2.55
Korea	2,092,862	1,297,883	61.25	3,390,745	3,891,643	-12.87
Singapore	1,036,077	1,114,025	-7.00	2,150,102	4,692,473	-54.18
Belgium	459,207	1,621,957	-71.69	2,081,164	4,794,271	-56.59
Brazil	190,907	1,015,356	-81.20	1,206,263	1,998,633	-39.65

1991 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		FEB '91 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	5,314	9,384,660	10,664	22,616,597
Boring Machines	8	572,189	8	2,689,884	16	3,262,073
Drilling Machines	104	2,125,292	72	2,302,444	176	4,427,736
Gear Cutting Machines	14	7,378,919	23	3,441,470	37	10,820,389
Grinding Machines	244	5,937,543	272	10,254,977	516	16,192,520
Horizontal Lathes NC	15	2,388,500	33	3,043,968	48	5,432,468
Vertical Lathes NC	1	161,310	2	341,835	3	503,145
Lathes Non-NC	37	817,093	46	1,273,108	83	2,090,201
Milling Machines	21	1,285,651	27	1,256,940	48	2,542,591
Machining Centers	18	2,251,834	27	4,699,366	45	6,951,200
Station Type Machines	7	6,763,963	10	16,280,662	17	23,044,625
Other Metal Cutting	223	7,078,662	278	7,046,503	501	14,125,165
Punching & Shearing Machines	108	4,513,331	79	5,456,279	187	9,969,610
Bending & Forming Machines	116	4,251,882	102	6,952,107	218	11,203,989
Presses	293	7,418,063	96	5,734,227	389	13,152,290
Forging Machines	11	2,746,151	19	5,146,204	30	7,892,355
Other Metal Forming	231	7,030,224	185	7,182,512	416	14,212,736
TOTAL	6,801	75,952,544	6,593	92,487,146	13,394	168,439,690

PRODUCT TYPES	FEBRUARY 1990		FEB '90 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	4,543	10,935,156	7,442	23,159,171
Boring Machines	8	1,407,307	21	2,365,604
Drilling Machines	53	920,425	163	3,175,844
Gear Cutting Machines	19	3,700,605	60	9,255,472
Grinding Machines	228	10,470,138	499	25,681,868
Horizontal Lathes NC	35	5,062,164	78	9,925,997
Vertical Lathes NC	0	0	5	1,223,137
Lathes Non-NC	48	1,473,294	106	2,586,335
Milling Machines	29	3,228,995	77	6,825,636
Machining Centers	34	6,062,752	99	13,589,709
Station Type Machines	28	7,752,282	38	13,126,623
Other Metal Cutting	312	7,438,893	626	14,604,262
Punching & Shearing Machines	121	9,826,370	228	14,253,823
Bending & Forming Machines	125	3,466,071	262	9,368,423
Presses	130	6,795,010	389	18,477,634
Forging Machines	16	2,278,536	42	7,293,831
Other Metal Forming	264	5,154,346	529	14,129,044
TOTAL	5,993	85,972,344	10,664	189,042,413

PRODUCT TYPES	% CHANGE JAN '91 - FEB '91		% CHANGE FEB '90 - FEB '91		% CHANGE YTD '90 - YTD '91	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-0.67	-29.08	16.97	-14.18	43.29	-2.34
Boring Machines	0.00	370.10	0.00	91.14	-23.81	37.90
Drilling Machines	-30.77	8.34	35.85	150.15	7.98	39.42
Gear Cutting Machines	64.29	-53.36	21.05	-7.00	-38.33	16.91
Grinding Machines	11.48	72.71	19.30	-2.05	3.41	-36.95
Horizontal Lathes NC	120.00	27.44	-5.71	-39.87	-38.46	-45.27
Vertical Lathes NC	100.00	111.91	NA	NA	-40.00	-58.86
Lathes Non-NC	24.32	55.81	-4.17	-13.59	-21.70	-19.18
Milling Machines	28.57	-2.23	-6.90	-61.07	-37.66	-62.75
Machining Centers	50.00	108.69	-20.59	-22.49	-54.55	-48.85
Station Type Machines	42.86	140.70	-64.29	110.01	-55.26	75.56
Other Metal Cutting	24.66	-0.45	-10.90	-5.27	-19.97	-3.28
Punching & Shearing Machines	-26.85	20.89	-34.71	-44.47	-17.98	-30.06
Bending & Forming Machines	-12.07	63.51	-18.40	100.58	-16.79	19.59
Presses	-67.24	-22.70	-26.15	-15.61	0.00	-28.82
Forging Machines	72.73	87.40	18.75	125.86	-28.57	8.21
Other Metal Forming	-19.91	2.17	-29.92	39.35	-21.36	0.59
TOTAL	-3.06	21.77	10.01	7.58	25.60	-10.90

1991 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		FEB '91 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	94,612	15,968,463	166,279	29,063,454
Boring Machines	75	3,212,626	65	3,295,233	140	6,507,859
Drilling Machines	136	5,284,960	72	2,124,951	208	7,409,911
Gear Cutting Machines	34	7,247,022	30	2,608,872	64	9,855,894
Grinding Machines	662	23,141,603	464	17,045,322	1,126	40,186,925
Horizontal Lathes NC	158	17,509,455	251	25,854,656	409	43,364,111
Vertical Lathes NC	9	1,367,349	15	2,253,656	24	3,621,005
Lathes Non-NC	722	8,815,703	340	4,755,176	1,062	13,570,879
Milling Machines	449	12,771,541	257	2,795,380	706	15,566,921
Machining Centers	293	33,595,255	212	22,089,069	505	55,684,324
Station Type Machines	14	4,189,738	4	1,830,253	18	6,019,991
Other Metal Cutting	448	11,368,644	217	12,635,073	665	24,003,717
Punching & Shearing Machines	67	5,697,766	59	1,638,364	126	7,[illegible]36,130
Bending & Forming Machines	189	6,557,096	183	8,695,550	372	1[illegible],252,646
Presses	72	16,236,188	317	9,033,944	389	25,270,132
Forging Machines	59	5,028,586	47	2,528,010	106	7,556,596
Other Metal Forming	286	13,786,011	230	15,783,509	516	29,569,520
TOTAL	75,340	188,904,534	97,375	150,935,481	172,715	339,840,015

PRODUCT TYPES	FEBRUARY 1990		FEB '90 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	66,011	10,754,274	146,176	25,855,622
Boring Machines	57	2,665,242	97	5,176,716
Drilling Machines	66	1,331,591	253	7,308,109
Gear Cutting Machines	39	3,472,430	76	8,858,644
Grinding Machines	631	18,196,164	1,353	46,606,313
Horizontal Lathes NC	275	24,455,772	617	58,766,569
Vertical Lathes NC	9	1,890,507	32	4,716,987
Lathes Non-NC	474	8,086,596	1,083	17,777,925
Milling Machines	369	5,328,255	819	14,805,692
Machining Centers	262	28,896,262	630	73,391,363
Station Type Machines	9	2,400,678	25	6,828,682
Other Metal Cutting	390	15,984,088	933	30,010,097
Punching & Shearing Machines	122	5,391,216	232	11,093,007
Bending & Forming Machines	152	5,080,016	358	12,365,995
Presses	368	3,381,548	707	10,473,982
Forging Machines	121	5,829,041	203	14,361,756
Other Metal Forming	259	10,882,669	548	21,746,988
TOTAL	69,614	154,026,349	154,142	370,144,447

PRODUCT TYPES	% CHANGE JAN '91 - FEB '91		% CHANGE FEB '90 - FEB '91		% CHANGE YTD '90 - YTD '91	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	32.02	21.94	43.33	48.48	13.75	12.41
Boring Machines	-13.33	2.57	14.04	23.64	44.33	25.71
Drilling Machines	-47.06	-59.79	9.09	59.58	-17.79	1.39
Gear Cutting Machines	-11.76	-64.00	-23.08	-24.87	-15.79	11.26
Grinding Machines	-29.91	-26.34	-26.47	-6.32	-16.78	-13.77
Horizontal Lathes NC	58.86	47.66	-8.73	5.72	-33.71	-26.21
Vertical Lathes NC	66.67	64.82	66.67	19.21	-25.00	-23.23
Lathes Non-NC	-52.91	-46.06	-28.27	-41.20	-1.94	-23.66
Milling Machines	-42.76	-78.11	-30.35	-47.54	-13.80	5.14
Machining Centers	-27.65	-34.25	-19.08	-23.56	-19.84	-24.13
Station Type Machines	-71.43	-56.32	-55.56	-23.76	-28.00	-11.84
Other Metal Cutting	-51.56	11.14	-44.36	-20.95	-28.72	-20.01
Punching & Shearing Machines	-11.94	-71.25	-51.64	-69.61	-45.69	-33.87
Bending & Forming Machines	-3.17	32.61	20.39	71.17	3.91	23.34
Presses	340.28	-44.36	-13.86	167.15	-44.98	141.27
Forging Machines	-20.34	-49.73	-61.16	-56.63	-47.78	-47.38
Other Metal Forming	-19.58	14.49	-11.20	45.03	-5.84	35.97
TOTAL	29.25	-20.10	39.88	-2.01	12.05	-8.19

U.S. EXPORTS
Metal Cutting Machine Tools - February 91

RELEASED: May 1, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	20	1427	12	928
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	15	2175	10	1404
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	2	220	2	220
100035	Horizontal machining centers, ATC	6	2485	4	1805
100045	Machining centers, n.e.c.	22	2071	11	1270
200010	Unit construction mach. (single station transfer), NC	2	474	0	0
200090	Unit construction mach. (single station transfer), non-NC	3	865	2	280
300010	Multi-station transfer machines, NC	5	9799	2	4131
300090	Multi-station transfer machines, non-NC	6	11869	6	11869
8458110010	Horizontal lathes, multiple spindle, NC	5	1175	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	29	2086	24	1629
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	10	1648	6	983
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	4	524	3	432
190030	Horizontal engine or toolroom lathes, non-NC	7	63	4	40
190050	Automatic bar and/or chucking mach., single spindle, non-NC	0	0	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	9	386	9	386
190090	Horizontal lathes, n.e.c., non-NC	48	923	24	500
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	100
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	2	242	2	242
991050	Vertical turret lathes, non-NC	10	149	3	41
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	9	569	6	305
8459100000	Way-type unit head machines	1	38	0	0
210080	Other drilling machines, NC	37	3418	20	1763
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	2	16	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	6	334	4	326
290090	Drilling machines, n.e.c., non-NC	131	661	48	213
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	2580	2	2450
310070	Boring-milling machines, n.e.c., NC	3	150	3	150
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	3	133	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	2	58	2	58
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	4	309	1	33
510080	Milling machines, knee type, NC	1	480	0	0
590030	Milling machines, knee type, non-NC	19	892	9	287
610080	Milling machines, excluding knee type, n.e.c., NC	3	507	2	453
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	25	664	16	517
700020	Threading or tapping machines, n.e.c., NC	25	612	17	421
700080	Threading or tapping machines, n.e.c., non-NC	37	1297	19	426
8460110080	Flat surface grinding machines, NC	5	844	4	817
190010	Flat surface grinding mach., recip.-table type, non-NC	12	143	1	15
190050	Flat surface grinding machines, n.e.c., non-NC	4	444	1	64
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	20	7923	16	6799
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	3	972	1	119
290030	Grinding machines, internal cylindrical, non-NC	1	23	1	23
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	55	2164	17	483
310080	Sharpening machines (tool & cutter grinding), NC	3	78	0	0
390050	Sharpening machines (tool or cutter grinding), non-NC	242	1736	163	1145
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	31	492	6	140
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	0	0	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	140	1373	62	651
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	54	905	29	697
200010	Shaping or slotting machines, NC	2	208	1	99
200090	Shaping or slotting machines, non-NC	10	139	1	35
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	5	237	4	52
401050	Gear hobbers	17	1418	12	631
401070	Gear shapers	0	0	0	0
401090	Gear cutting machines, n.e.c.	12	7683	4	1947
405060	Gear grinding or finishing machines	8	1719	7	863
500050	Sawing or cutting-off machines, NC	9	550	1	13
500090	Sawing or cutting-off machines, non-NC	218	3121	139	2077
9000000001	Metal cutting machine tools, n.e.c.	121	5629	55	2298
9800000001	Used or rebuilt machine tools	732	8506	334	3592
9900000001	Machine tools valued at less than $3,025	6765	3836	3682	1923
	Cutting Total			4814	58146
	Y-T-D Cutting Total	8987	101734		
	NC Y-T-D Cutting Total*	265	43662		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - February 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	124
8457100015	0	0	0	0	4	577	0	0	2	344
100025	0	0	0	0	0	0	0	0	2	220
100035	0	0	0	0	1	278	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	68
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	98
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	1	84	0	0	2	146
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	1	167
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	5	214
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	214
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	3	120
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	14	66
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	25	0	0	1	33
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	22
610080	0	0	0	0	0	0	0	0	1	416
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	48
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	61	0	0	2	28
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	1	15	0	0
190050	0	0	0	0	0	0	0	0	1	64
210080	0	0	0	0	0	0	0	0	2	1838
290010	0	0	0	0	0	0	0	0	1	119
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	94
310080	0	0	0	0	0	0	0	0	0	0
390050	1	8	0	0	0	0	22	196	16	115
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	4	70
900060	0	0	0	0	0	0	0	0	0	0
900080	1	3	1	16	0	0	2	13	29	297
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	35
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	4	52
401050	0	0	0	0	8	450	0	0	1	30
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	13
500090	1	9	0	0	0	0	0	0	17	176
9000000001	0	0	0	0	0	0	8	720	16	90
9800000001	1	35	0	0	0	0	6	209	57	424
9900000001	58	53	1	3	354	181	0	0	309	263
Month Tot	62	108	2	19	370	1656	39	1152	501	6008
Y-T-D Tot	151	1106	11	29	396	2632	59	1499	902	10088
NC YTD Tot*	1	506	0	0	13	1769	8	760	28	5258

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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	185	0	0	8	584	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	280	0	0	0	0
300010	0	0	0	0	2	4131	0	0	0	0
300090	1	1038	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	123	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	20	1763	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	1	109	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	200	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	2	760	1	31
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	404	2	634	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	23	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	7	44	17	106	73	476	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	16	2	23	4	24	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	2	118	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	2	657	0	0	0	0
405060	0	0	0	0	1	789	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	235	2	27	8	141	0	0	0	0
9000000001	0	0	0	0	12	1064	0	0	0	0
9800000001	1	4	3	15	3	26	2	67	0	0
9900000001	0	0	58	38	602	368	18	13	1	3
Month Tot	20	2005	74	781	685	10185	96	1515	2	34
Y-T-D Tot	47	3361	228	3917	854	19013	180	3313	3	49
NC YTD Tot*	9	1144	12	2048	47	13732	2	760	1	31

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	200	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	202
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	8	426	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	264
190030	0	0	0	0	0	0	0	0	3	37
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	4	153	0	0	0	0
190090	0	0	0	0	3	25	0	0	14	245
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	100
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	28
991050	0	0	0	0	0	0	0	0	3	41
995090	0	0	0	0	0	0	0	0	3	185
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	16	70
310010	0	0	0	0	0	0	0	0	0	0
310040	2	2450	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	33
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	50
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	18
700020	0	0	0	0	0	0	0	0	1	13
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	26
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	3	704	4	1734	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	9	328	0	0	6	61
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	17	114	3	15	1	4	1	42
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	51	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	2	72	1	10	0	0	3	38
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	4	71
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	33
401070	0	0	0	0	0	0	0	0	0	0
401090	1	672	1	618	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	25	375	16	281	0	0	9	89
9000000001	0	0	0	0	0	0	0	0	3	27
9800000001	14	85	11	950	14	46	0	0	108	436
9900000001	.24	15	524	96	158	117	0	0	497	153
Month Tot	41	3223	593	3607	212	2708	1	4	686	2262
Y-T-D Tot	288	5441	1156	7837	739	5180	4	43	1271	6118
NC YTD Tot*	5	2906	42	3093	4	1734	0	0	21	1764

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	34
8457100015	0	0	2	183	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	464	0	0	0	0	0	0	0	0
100045	1	310	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	63	0	0	0	0	2	172	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	217	0	0	0	0	0	0	0	0
290090	14	62	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	5	165	0	0	1	24	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	35	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	1129	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	5	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	17	1	8	0	0	1	6	2	21
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	7	0	0	0	0	0	0	2	13
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	23	5	51
500050	0	0	0	0	0	0	0	0	0	0
500090	2	29	1	24	2	45	0	0	1	17
9000000001	0	0	4	235	0	0	1	13	1	13
9800000001	0	0	0	0	1	6	48	122	0	0
9900000001	31	17	88	49	14	11	34	17	302	51
Month Tot	57	1186	102	670	17	61	93	1540	314	200
Y-T-D Tot	105	1823	124	1035	41	248	312	1671	521	703
NC YTD Tot*	4	889	2	183	1	27	6	1330	2	56

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	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	2	300	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	863
100045	0	0	1	78	0	0	0	0	3	613
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	3	10473	0	0	1	260
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	9	616	0	0	0	0	0	0
110050	0	0	4	833	0	0	2	150	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	5	233	0	0	0	0	0	0
190090	0	0	1	10	0	0	0	0	1	7
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	4	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	3	150
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	25
610080	0	0	0	0	0	0	0	0	1	37
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	9	216
700020	0	0	0	0	0	0	0	0	16	408
700080	0	0	0	0	0	0	3	292	13	44
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	357	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	15	0	0	0	0	1	5
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	19
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	2	18	0	0	3	21	4	47
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	7	0	0	0	0	20	600
200010	0	0	0	0	0	0	0	0	1	99
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	10	28	440	0	0	4	85	9	93
9000000001	1	64	4	34	0	0	3	18	2	22
9800000001	10	170	29	152	0	0	3	19	23	828
9900000001	7	4	63	44	0	0	65	83	474	345
Month Tot	19	248	153	3136	3	10473	83	667	589	4698
Y-T-D Tot	41	416	326	4428	8	11396	125	1416	1095	8972
NC YTD Tot*	2	50	20	2727	4	324	3	215	28	2355

Please see notes on last page of the metal forming section.

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RELEASED: May 1, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	82	1905	39	582
8462100030	Headers and upsetters, including cold headers	6	3140	4	1747
100050	Forging or die stamping machines, and hammers, n.e.c.	24	4752	15	3399
210080	Bending, folding, straight. or flat. mach., incl presses, NC	33	4929	24	3142
290030	Press brakes, non-NC	18	359	12	258
290040	Bending rolls, non-NC	9	535	6	479
290050	Bending, folding, straight., or flat., n.e.c., non-NC	158	5381	60	3073
310080	Shearing machines, NC	12	1199	7	770
390050	Shearing machines, non-NC	52	1971	22	1370
410080	Punching or notching mach., incl. comb. punch & shear, NC	21	2787	11	1440
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	102	4013	39	1876
910060	Hydraulic presses, NC	4	120	0	0
910090	Hydraulic presses, non-NC	123	2779	28	811
990030	Presses, n.e.c., NC	17	1504	4	868
990040	Presses, mechanical, non-NC	39	3277	6	1009
990060	Presses, n.e.c., non-NC	206	5473	58	3046
8463100080	Draw benches for bars, tubes, profiles, wire or the like	46	2128	16	952
200080	Thread rolling machines	6	116	0	0
300080	Machines for working wire	114	4508	51	2125
900080	Metal forming machine tools, n.e.c.	168	5556	79	3524
9800000002	Used or rebuilt machine tools	507	8048	207	2873
9900000002	Machine tools valued at less than $3,025	2660	2227	1091	996
	Forming Total			1779	34341
	Y-T-D Forming Total	4407	66706		
	NC Y-T-D Forming Total	87	10538		
	Cutting and Forming Totals:				
	Monthly Total			6593	92487
	Y-T-D Total	13394	168440		
	NC Y-T-D Total*	352	54200		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	110834	0	53757
2000000000	Parts for working rubber or plastics - heading 8477	0	45306	0	21503
2710003070	Quenching or cutting oils	0	885	0	437
8428900010	Industrial robots for lifting, handling, loading or unload	128	1006	46	446
8431390090	Parts industrial robots, handling and loading - heading 8428	0	14637	0	6345
8456100000	Laser, light or photon beam for working any material	111	5855	36	2432
200000	Ultrasonic process for working any material	11	244	4	57
8477106010	Injection molding mach., for rubber or oth. thermosetting	33	2127	16	963
106070	Injection molding machines, for thermoplastics	58	6485	28	1930
200005	Extruders; rubber or other thermosetting mat., single screw	17	1467	10	910
200015	Extruders; rubber or thermosetting, other incl. multi. screw	28	2846	6	988
200030	Extruders; thermoplastics, single screw	46	1362	15	406
200060	Extruders; thermoplastics, other incl. multi. screw	21	3579	7	160
300000	Blow molding machines	190	7187	115	2055
400000	Vacuum-molding and other thermoforming machines	111	933	60	460
510010	Machines for molding or retreading pneumatic tires	183	1341	145	648
510090	Machines for molding or otherwise forming inner tubes	117	2820	35	1632
590000	Machines for molding or otherwise forming n.e.c.	236	2139	107	1004
800000	Machines for working rubber or plastics n.e.c.	918	16005	613	9673
8479899040	Industrial robots, n.e.c.	794	8781	286	4130
908040	Industrial robot parts	0	4195	0	2068
8537100030	Numerical controls for controlling machine tools	261	3847	128	1921
9024100000	Machines and appliances for testing metals	0	9726	0	5307
9031100000	Machines for balancing mechanical parts	0	4450	0	1203
300000	Profile projectors	0	592	0	399
9032810040	Industrial process control instr., hydraulic or pneumatic	157173	7145	89046	3417

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	3	1	87
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	44	0	0	0	0	1	583
210080	0	0	0	0	0	0	0	0	5	858
290030	0	0	0	0	0	0	0	0	5	77
290040	0	0	0	0	0	0	0	0	1	23
290050	2	62	0	0	0	0	0	0	13	290
310080	0	0	0	0	0	0	0	0	1	142
390050	0	0	0	0	0	0	0	0	4	47
410080	0	0	0	0	0	0	1	77	1	170
490050	0	0	0	0	0	0	0	0	1	9
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	5
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	4	694
200080	0	0	0	0	0	0	0	0	0	0
300080	1	4	0	0	0	0	0	0	3	109
900080	4	101	1	29	0	0	1	18	4	52
9800000002	0	0	1	10	0	0	0	0	27	319
9900000002	14	16	0	0	44	46	0	0	102	122
Month Tot	21	183	3	84	44	46	3	97	174	3590
Y-T-D Tot	48	347	3	84	94	125	54	1005	451	8677
NC YTD Tot	0	0	0	0	0	0	2	110	12	1639
C&F Month	83	291	5	102	414	1702	42	1249	675	9598
C&F Y-T-D	199	1453	14	112	490	2757	113	2504	1353	18765
C&F NC YTD*	1	506	0	0	13	1769	10	870	40	6898

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	740	0	129	0	638	0	1027	0	9857
2000000000	0	180	0	35	0	202	0	277	0	6395
2710003070	0	7	0	0	0	8	0	0	0	92
8428900010	0	0	0	0	1	8	0	0	1	11
8431390090	0	401	0	0	0	30	0	61	0	936
8456100000	0	0	0	0	0	0	0	0	3	83
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	2	89
106070	0	0	0	0	0	0	0	0	4	986
200005	0	0	0	0	0	0	0	0	7	772
200015	0	0	0	0	0	0	0	0	6	988
200030	0	0	0	0	0	0	0	0	0	0
200060	1	19	0	0	0	0	0	0	0	0
300000	0	0	0	0	76	210	14	263	0	0
400000	0	0	0	0	0	0	0	0	3	55
510010	0	0	0	0	13	55	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	1	21	3	46
800000	0	0	0	0	0	0	28	435	165	3351
8479899040	1	22	0	0	0	0	0	0	116	695
908040	0	0	0	0	0	0	0	0	0	922
8537100030	0	0	0	0	0	0	0	0	6	53
9024100000	0	77	0	19	0	0	0	35	0	536
9031100000	0	79	0	0	0	0	0	0	0	518
300000	0	35	0	0	0	0	0	0	0	4
9032810040	63	7	486	24	439	26	84	27	2139	291

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	5	0	0	0	0	0	0
8462100030	0	0	0	0	1	402	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	1	300	0	0	0	0
290050	0	0	0	0	3	52	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	200	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	140	0	0
490050	5	494	0	0	0	0	1	8	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	1	12	0	0	0	0
990030	1	362	0	0	1	322	0	0	0	0
990040	1	500	0	0	0	0	0	0	0	0
990060	0	0	0	0	5	1268	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	7	132	12	163	0	0	0	0
900080	1	691	0	0	6	107	2	61	0	0
9800000002	0	0	1	40	4	58	0	0	0	0
9900000002	0	0	39	28	101	69	0	0	0	0
Month Tot	8	2047	49	405	135	2754	4	209	0	0
Y-T-D Tot	17	3772	158	1189	418	8961	19	492	30	359
NC YTD Tot	3	948	0	0	16	1475	1	140	0	0
C&F Month	28	4052	123	1186	820	12939	100	1725	2	34
C&F Y-T-D	64	7132	386	5106	1272	27973	199	3805	33	407
C&F NC YTD*	12	2093	12	2048	63	15208	3	900	1	31

Other Manufacturing Technology

1000000000	0	354	0	1619	0	4812	0	349	0	873
2000000000	0	119	0	292	0	1662	0	130	0	32
2710003070	0	0	0	40	0	0	0	0	0	40
8428900010	0	0	30	297	8	11	0	0	0	0
8431390090	0	0	0	46	0	193	0	4	0	66
8456100000	0	0	0	0	0	0	1	15	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	14	350	1	45	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	2	86	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	27	20	0	0	0	0
510010	0	0	0	0	0	0	7	28	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	2	27	9	124	23	21	0	0
800000	43	3101	24	381	76	100	0	0	0	0
8479899040	14	87	5	1734	7	176	0	0	0	0
908040	0	0	0	119	0	235	0	0	0	0
8537100030	0	0	22	328	21	306	0	0	0	0
9024100000	0	575	0	67	0	1004	0	53	0	0
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	38	0	92	0	0	0	0
9032810040	10	7	1627	95	8333	556	841	55	2850	142

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	16	173	11	228
8462100030	0	0	3	1344	0	0	0	0	0	0
100050	0	0	1	2010	2	103	0	0	1	74
210080	0	0	1	79	0	0	0	0	2	93
290030	0	0	1	47	0	0	0	0	5	78
290040	0	0	0	0	0	0	1	20	1	36
290050	0	0	3	73	0	0	1	12	15	547
310080	0	0	3	187	0	0	0	0	2	181
390050	0	0	0	0	0	0	0	0	11	344
410080	0	0	0	0	0	0	0	0	1	48
490050	7	91	6	81	1	11	0	0	1	23
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	18	677
990030	0	0	1	179	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	3	110
990060	0	0	29	658	0	0	1	245	16	344
8463100080	0	0	8	189	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	5	165	2	16	0	0	3	32
900080	10	256	12	428	2	86	0	0	5	73
9800000002	8	43	1	318	1	22	0	0	84	621
9900000002	16	15	115	55	6	5	0	0	285	288
Month Tot	41	404	189	5814	14	244	19	450	464	3796
Y-T-D Tot	87	1620	288	8560	151	1910	36	633	1014	7852
NC YTD Tot	0	0	6	478	7	866	0	0	11	1129
C&F Month	82	3626	782	9421	226	2953	20	454	1150	6059
C&F Y-T-D	375	7061	1444	16397	890	7089	40	676	2285	13971
C&F NC YTD*	5	2906	48	3570	11	2600	0	0	32	2893
Other Manufacturing Technology										
1000000000	0	1526	0	6074	0	2144	0	344	0	3327
2000000000	0	381	0	779	0	2185	0	169	0	1974
2710003070	0	0	0	32	0	39	0	0	0	41
8428900010	0	0	2	48	0	0	0	0	0	0
8431390090	0	3	0	158	0	48	0	0	0	263
8456100000	2	658	12	523	0	0	0	0	1	274
200000	2	28	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	12	706
106070	0	0	0	0	0	0	0	0	5	286
200005	0	0	0	0	0	0	0	0	3	138
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	5	124
200060	0	0	0	0	0	0	0	0	1	16
300000	1	13	0	0	0	0	0	0	15	320
400000	0	0	1	3	23	210	0	0	3	23
510010	0	0	1	81	1	87	0	0	5	42
510090	0	0	5	777	0	0	0	0	24	717
590000	2	39	8	350	0	0	0	0	43	147
800000	0	0	0	0	5	24	2	39	117	1408
8479899040	72	567	8	117	0	0	2	29	1	278
908040	0	17	0	353	0	34	0	0	0	12
8537100030	5	77	2	31	2	32	1	15	2	41
9024100000	0	67	0	1214	0	167	0	0	0	132
9031100000	0	18	0	144	0	18	0	0	0	285
300000	0	14	0	14	0	29	0	0	0	0
9032810040	3252	169	2252	136	1744	107	1	6	478	116

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	10	6	65	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	50
290030	0	0	1	56	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	9	0	0	0	0	0	0	0	0
310080	1	260	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	4	445	1	110	0	0	0	0	0	0
490050	1	4	0	0	1	53	0	0	2	50
910060	0	0	0	0	0	0	0	0	0	0
910090	1	6	0	0	0	0	1	14	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	1	350
8463100080	0	0	0	0	1	14	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	19	0	0	1	71	1	5	0	0
900080	3	232	1	4	0	0	0	0	8	749
9800000002	1	278	6	209	0	0	0	0	0	0
9900000002	23	20	13	14	5	4	12	10	0	0
Month Tot	37	1283	28	459	8	141	14	28	13	1199
Y-T-D Tot	64	1452	99	847	13	160	82	393	21	1206
NC YTD Tot	6	771	2	154	0	0	0	0	2	50
C&F Month	94	2469	130	1129	25	202	107	1568	327	1399
C&F Y-T-D	169	3275	223	1882	54	408	394	2065	542	1909
C&F NC YTD*	10	1660	4	337	1	27	6	1330	4	106

Other Manufacturing Technology

1000000000	0	1413	0	1072	0	476	0	603	0	774
2000000000	0	1532	0	207	0	96	0	94	0	127
2710003070	0	0	0	50	0	0	0	0	0	52
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	87	0	13	0	0	0	12	0	6
8456100000	0	0	1	12	0	0	1	47	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	104	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	1	45	0	0	0	0	0	0
510010	2	37	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	1	16	3	53	3	27
800000	103	53	1	33	0	0	1	20	0	0
8479899040	0	0	0	0	0	0	0	0	0	0
908040	0	0	0	16	0	4	0	265	0	0
8537100030	1	14	6	108	1	14	0	0	0	0
9024100000	0	181	0	66	0	77	0	32	0	147
9031100000	0	3	0	34	0	0	0	0	0	0
300000	0	0	0	15	0	0	0	20	0	63
9032810040	8422	442	1315	93	3864	199	110	8	553	52

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	6	0	0	1	5	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	52	1	48	0	0	0	0	7	486
210080	0	0	3	114	0	0	0	0	11	1948
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	72	0	0	0	0	1	28
290050	0	0	4	138	0	0	0	0	18	1890
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	725	0	0	1	9	4	45
410080	1	176	0	0	0	0	0	0	1	274
490050	0	0	3	37	0	0	0	0	10	1016
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	1	35	6	66
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	2	399
990060	0	0	4	112	0	0	1	34	1	35
8463100080	0	0	1	40	0	0	0	0	2	14
200080	0	0	0	0	0	0	0	0	0	0
300080	1	517	3	58	0	0	0	0	11	832
900080	0	0	16	557	0	0	0	0	3	80
9800000002	13	14	1	19	0	0	0	0	59	923
9900000002	4	3	119	92	0	0	0	0	193	208
Month Tot	20	762	158	2017	0	0	4	82	329	8247
Y-T-D Tot	47	917	289	4166	0	0	14	172	910	11806
NC YTD Tot	1	176	5	323	0	0	0	0	13	2280
C&F Month	39	1010	311	5153	3	10473	87	749	918	12945
C&F Y-T-D	88	1334	615	8594	8	11396	139	1588	2005	20778
C&F NC YTD*	3	226	25	3049	4	324	3	215	41	4635

Other Manufacturing Technology

1000000000	0	1534	0	4826	0	671	0	858	0	7715
2000000000	0	88	0	1097	0	0	0	658	0	2792
2710003070	0	21	0	0	0	0	0	0	0	17
8428900010	0	0	4	70	0	0	0	0	0	0
8431390090	0	29	0	433	0	0	0	174	0	3381
8456100000	0	0	2	68	0	0	10	695	3	57
200000	0	0	0	0	0	0	0	0	2	29
8477106010	0	0	1	65	0	0	0	0	0	0
106070	0	0	2	185	0	0	1	53	1	26
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	3	75	0	0	0	0	5	121
200060	0	0	0	0	0	0	0	0	5	126
300000	0	0	3	1117	0	0	0	0	6	132
400000	0	0	0	0	0	0	0	0	2	104
510010	0	0	7	181	0	0	0	0	109	136
510090	0	0	1	13	0	0	0	0	5	125
590000	0	0	7	104	0	0	0	0	2	28
800000	4	9	17	231	0	0	15	235	12	253
8479899040	0	0	51	326	0	0	1	6	8	93
908040	0	0	0	62	0	0	0	4	0	27
8537100030	0	0	46	697	0	0	0	0	13	206
9024100000	0	4	0	304	0	0	0	121	0	431
9031100000	0	0	0	0	0	0	0	27	0	76
300000	0	0	0	29	0	0	0	0	0	45
9032810040	39361	137	5083	354	0	0	255	20	5484	349

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	1	165	1	165
Denmark	2	4	15	32	17	36
Finland	3	12	2	154	5	166
Greece	1	11	0	0	1	11
Hungary	0	0	0	0	0	0
Iceland	15	10	0	0	15	10
Ireland	19	34	6	8	25	42
Luxembourg	0	0	1	14	1	14
Norway	41	524	12	10	53	534
Poland	3	8	0	0	3	8
Portugal	11	5	0	0	11	5
Romania	0	0	0	0	0	0
Sweden	61	914	17	65	78	979
Turkey	1	62	0	0	1	62
Yugoslavia	0	0	1	274	1	274
Oth Europe	1	6	1	9	2	15
TOTAL	1653	33849	545	7893	2198	41742
NORTH AND CENTRAL AMERICA						
Bahamas	1	12	0	0	1	12
Barbados	0	0	9	17	9	17
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	20	12	9	8	29	20
Dominican Rep	3	9	2	3	5	12
El Salvador	0	0	1	35	1	35
Guatemala	5	3	6	140	11	143
Haiti	0	0	0	0	0	0
Honduras	8	10	4	108	12	118
Jamaica	0	0	1	6	1	6
Panama	0	0	4	199	4	199
Trinidad	0	0	0	0	0	0
Oth N & C Am.	2	11	1	4	3	15
TOTAL	1226	8327	675	7905	1901	16232
SOUTH AMERICA						
Argentina	88	67	0	0	88	67
Bolivia	0	0	1	3	1	3
Chile	5	114	36	774	41	888
Colombia	14	60	14	52	28	112
Ecuador	0	0	16	23	16	23
Paraguay	0	0	0	0	0	0
Peru	5	3	15	73	20	77
Uruguay	25	15	0	0	25	15
Oth South Am.	0	0	0	0	0	0
TOTAL	259	2078	89	1105	348	3183
OCEANIA						
New Zealand	5	8	0	0	5	8
Oth Oceania	0	0	0	0	0	0
TOTAL	67	116	21	183	88	299

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	164	1030	17	421	181	1451
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	8	41	3	148	11	189
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	22	11	22	11
Pakistan	1	25	13	11	14	36
Philippines	7	80	24	2110	31	2190
Qatar	0	0	0	0	0	0
Saudi Arabia	9	216	17	1669	26	1885
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	186	1	186
United Arab Emr	4	122	0	0	4	122
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	6	81	6	81
TOTAL	1552	12506	398	15821	1950	28327
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	1	99	8	61	9	160
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	1	33	4	842	5	875
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	7	486	7	486
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	3	613	8	7	11	619
South Africa	36	487	24	38	60	525
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	10	35	0	0	10	35
Oth Africa	6	4	0	0	6	4
TOTAL	57	1270	51	1434	108	2704

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: May 1, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - February 91

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	112	7786	52	4979
301050	Electro-discharge machines, n.e.c., NC	38	4357	23	3166
301070	Electro-discharge machines, n.e.c., non-NC	123	865	12	324
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	322	26978	126	10363
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	24	3759	4	772
100035	Horizontal machining centers, ATC	94	20013	34	7898
100045	Machining centers, n.e.c.	65	4934	48	3056
200010	Unit construction mach. (single station transfer), NC	9	640	1	221
200090	Unit construction mach. (single station transfer), non-NC	1	217	0	0
300010	Multi-station transfer machines, NC	2	1675	0	0
300090	Multi-station transfer machines, non-NC	5	3430	3	1610
8458110010	Horizontal lathes, multiple spindle, NC	40	6384	16	2450
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	286	23635	184	15411
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	74	10326	48	6396
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	9	3019	3	1599
190030	Horizontal engine or toolroom lathes, non-NC	751	6575	239	2672
190050	Automatic bar and/or chucking mach., single spindle, non-NC	95	2738	19	129
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	4	129	1	43
190090	Horizontal lathes, n.e.c., non-NC	106	1881	36	469
911060	Vertical turret lathes, multiple spindle, NC	3	550	1	183
911080	Vertical turret lathes, n.e.c., NC	4	749	2	184
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	7	459	7	459
915070	Vertical lathes, excluding VTL's, n.e.c., NC	10	1863	5	1428
991050	Vertical turret lathes, non-NC	34	361	21	281
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	72	1887	24	1161
8459100000	Way-type unit head machines	1	58	0	0
210080	Other drilling machines, NC	62	3521	37	1680
290040	Drilling machines, multiple spindle, non-NC	6	913	0	0
290050	Drilling machines, radial, non-NC	35	436	15	126
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	5	44	4	38
290090	Drilling machines, n.e.c., non-NC	100	2497	16	281
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	2	707	1	288
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	20	2875	13	1777
310070	Boring-milling machines, n.e.c., NC	7	153	2	113
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	10	625	3	284
400040	Boring machines, vertical, NC	3	254	3	254
400050	Boring machines, vertical, non-NC	15	338	5	56
400070	Boring machines, n.e.c., NC	7	285	1	14
400080	Boring machines, n.e.c., non-NC	76	1271	37	509
510080	Milling machines, knee type, NC	150	1670	32	484
590030	Milling machines, knee type, non-NC	333	3314	188	1634
610080	Milling machines, excluding knee type, n.e.c., NC	95	8813	10	451
690050	Milling machines, profile, dup., or die sinking, non-NC	4	17	0	0
690070	Milling machines, bed type, non-NC	9	250	0	0
690090	Milling machines, n.e.c., non-NC	115	1503	27	227
700020	Threading or tapping machines, n.e.c., NC	33	2061	13	990
700080	Threading or tapping machines, n.e.c., non-NC	10	470	4	74
8460110080	Flat surface grinding machines, NC	13	741	1	3
190010	Flat surface grinding mach., recip.-table type, non-NC	97	1449	44	721
190050	Flat surface grinding machines, n.e.c., non-NC	220	2675	136	1311
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	96	14872	35	7406
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	76	1754	19	725
290030	Grinding machines, internal cylindrical, non-NC	48	896	27	637
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	148	4554	57	2304
310080	Sharpening machines (tool & cutter grinding), NC	18	900	11	484
390050	Sharpening machines (tool or cutter grinding), non-NC	179	2041	38	405
400060	Honing or lapping machines, NC	8	1290	2	345
400080	Honing or lapping machines, non-NC	30	1726	3	546
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	11	483	9	461
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	182	6805	82	1697
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	1	6	1	6
200010	Shaping or slotting machines, NC	1	213	1	213
200090	Shaping or slotting machines, non-NC	5	100	4	77
300060	Broaching machines, NC	1	49	1	49
300080	Broaching machines, non-NC	4	435	0	0
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	29	4855	16	1280
401040	Gear shapers	16	1005	1	78
401060	Gear cutting machines, n.e.c.	15	2187	11	361
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	4	1809	2	889
500050	Sawing or cutting-off machines, NC	40	896	14	759
500090	Sawing or cutting-off machines, non-NC	249	4022	83	1492
9000000001	Metal cutting machine tools n.e.c.	48	2744	9	505
9800000001	Used or rebuilt machine tools	565	8566	410	5662
9900000001	Machine tools valued at less than $3,025	162360	14474	93144	7311
	Cutting Total			95481	110261
	Y-T-D Cutting Total	167852	248831		
	NC Y-T-D Cutting Total	1672	157320		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	1	1883
301070	0	0	0	0	0	0	0	0	2	164
8457100015	0	0	0	0	0	0	1	73	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	925
100045	0	0	0	0	2	121	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	1140	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	283
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	3	1599
190030	0	0	23	191	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	981
991050	0	0	0	0	0	0	2	185	0	0
995090	0	0	0	0	0	0	0	0	6	66
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	1
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	4	38
290090	0	0	0	0	0	0	0	0	1	5
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	6	1262
310070	0	0	0	0	0	0	0	0	2	113
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	1	14	0	0	0	0
400080	0	0	0	0	18	278	0	0	18	206
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	3	56
610080	0	0	0	0	0	0	0	0	1	239
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	4	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	2	14
8460110080	0	0	0	0	1	3	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	247
190050	0	0	0	0	0	0	3	97	4	127
210080	0	0	0	0	0	0	0	0	12	355
290010	0	0	0	0	1	10	0	0	7	97
290030	0	0	0	0	0	0	0	0	1	125
290050	0	0	0	0	10	46	0	0	7	241
310080	0	0	0	0	3	12	0	0	2	3
390050	1	25	0	0	8	28	1	15	2	21
400060	0	0	0	0	0	0	0	0	1	313
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	23	5	26	7	498
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	6	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	39
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	16	1280
401040	0	0	0	0	0	0	0	0	1	78
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	681
500090	0	0	0	0	21	234	0	0	13	255
9000000001	0	0	0	0	2	34	0	0	1	101
9800000001	0	0	0	0	18	68	1	88	48	1626
9900000001	3	3	0	0	87	159	140	105	147	155
Month Tot	5	34	23	191	176	2173	153	589	328	14080
Y-T-D Tot	9	802	79	1167	293	3232	243	3139	795	39125
NC YTD Tot	0	0	4	391	16	276	4	363	110	21202

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	35	2399	0	0	0	0	0	0
301050	0	0	12	667	0	0	0	0	0	0
301070	0	0	4	110	0	0	0	0	0	0
8457100015	0	0	67	6725	0	0	4	294	0	0
100025	0	0	4	772	0	0	0	0	0	0
100035	0	0	29	5755	1	73	0	0	0	0
100045	0	0	31	2337	1	29	0	0	0	0
200010	0	0	0	0	1	221	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	15	2166	0	0	0	0	0	0
110030	0	0	154	13795	6	368	0	0	0	0
110050	0	0	48	6396	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	20	194	27	330	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	8	147	0	0	0	0	2	25
911060	0	0	1	183	0	0	0	0	0	0
911080	0	0	0	0	1	119	0	0	0	0
915050	0	0	4	284	0	0	0	0	0	0
915070	2	267	2	179	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	14	76
995090	0	0	1	161	16	929	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	34	1587	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	48
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	6	1	128	0	0	11	94
310010	0	0	1	288	0	0	0	0	0	0
310040	0	0	1	342	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	3	284	0	0	0	0	0	0
400040	0	0	2	245	0	0	0	0	0	0
400050	5	56	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	26	0	0	0	0	0	0	0	0
510080	0	0	1	225	0	0	0	0	20	134
590030	0	0	0	0	0	0	0	0	133	1259
610080	0	0	2	140	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	18	0	0	0	0	0	0	2	24
700020	0	0	12	946	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	1	54
8460110080	0	0	0	0	0	0	0	0	0	0
190010	9	237	2	15	0	0	16	108	0	0
190050	0	0	0	0	0	0	0	0	1	62
210080	1	406	17	5230	0	0	0	0	0	0
290010	0	0	7	355	0	0	0	0	0	0
290030	0	0	1	76	0	0	0	0	0	0
290050	0	0	29	1430	0	0	0	0	1	398
310080	0	0	1	141	0	0	0	0	0	0
390050	1	14	5	116	0	0	0	0	0	0
400060	0	0	1	32	0	0	0	0	0	0
400080	0	0	1	16	0	0	0	0	0	0
900060	1	277	4	139	0	0	0	0	0	0
900080	1	42	21	475	0	0	0	0	4	128
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	213	0	0	0	0	0	0
200090	0	0	2	38	0	0	0	0	0	0
300060	0	0	1	49	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	5	360	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	338	0	0	0	0	0	0
500050	2	14	0	0	0	0	0	0	0	0
500090	0	0	23	852	0	0	0	0	0	0
9000000001	0	0	2	170	0	0	0	0	0	0
9800000001	0	0	288	1411	0	0	0	0	1	12
9900000001	1559	388	3724	574	1	2	24	4	0	0
Month Tot	1583	1745	4608	58173	48	2063	71	736	191	2314
Y-T-D Tot	4727	4510	8122	121664	1704	3361	250	1850	515	4770
NC YTD Tot	11	1720	935	103780	25	1712	12	755	134	900

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - February 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	17	2581	0	0	0	0	0	0
301050	0	0	5	557	5	58	0	0	0	0
301070	0	0	0	0	6	51	0	0	0	0
8457100015	0	0	0	0	13	710	37	2415	4	146
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	1	105	1	1041	0	0
100045	0	0	0	0	0	0	1	122	13	447
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	2	470	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	2	264	10	533	2	121	10	330
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	30	0	0	39	302	31	546	96	1079
190050	0	0	0	0	19	129	0	0	0	0
190070	0	0	0	0	0	0	1	43	0	0
190090	0	0	1	68	0	0	6	142	19	87
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	1	65	0	0	0	0	0	0
915050	0	0	3	175	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	5	19	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	5
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	12	0	0	1	79
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	73	0	0	1	4
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	49	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	6	172
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	9
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	10	84	1	41	0	0
590030	0	0	0	0	30	191	1	39	21	88
610080	0	0	0	0	2	41	0	0	5	31
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	73	21	102	0	0	1	6
700020	0	0	0	0	0	0	1	44	0	0
700080	0	0	0	0	0	0	1	6	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	16	114	0	0	0	0
190050	0	0	3	99	124	913	0	0	1	13
210080	1	275	3	1031	0	0	1	109	0	0
290010	0	0	4	263	0	0	0	0	0	0
290030	20	380	0	0	1	10	0	0	4	47
290050	0	0	2	15	2	15	2	16	4	144
310080	0	0	2	151	0	0	0	0	3	176
390050	0	0	4	34	1	7	13	119	2	27
400060	0	0	0	0	0	0	0	0	0	0
400080	1	519	0	0	0	0	1	11	0	0
900060	0	0	0	0	0	0	0	0	4	44
900080	0	0	0	0	16	208	6	47	20	249
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	6	1	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	550	0	0	0	0	0	0
500050	0	0	0	0	10	64	0	0	0	0
500090	0	0	2	9	11	82	10	38	3	22
9000000001	0	0	2	114	1	26	0	0	1	61
9800000001	3	72	3	402	0	0	27	1706	21	277
9900000001	76	128	11	5	78248	5202	38	34	9086	551
Month Tot	104	1403	69	6925	78605	9050	189	6691	9328	4093
Y-T-D Tot	730	4467	144	11621	135920	23721	338	12376	13983	13024
NC YTD Tot	3	1303	44	7810	205	7486	60	6237	109	3384

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 91

RELEASED: May 1, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	54	6662	32	5518
8462100030	Headers and upsetters, including cold headers	12	2417	4	382
100050	Forging or die stamping machines, and hammers, n.e.c.	94	5140	43	2146
210080	Bending, folding, straight. or flat. mach., incl presses, NC	85	7062	47	4065
290030	Press brakes, non-NC	45	1322	20	610
290040	Bending rolls, non-NC	19	736	7	436
290050	Bending, folding, straight., or flat., n.e.c., non-NC	223	6133	109	3584
310080	Shearing machines, NC	3	388	1	35
390050	Shearing machines, non-NC	44	1486	21	542
410080	Punching or notching mach., incl. comb. punch & shear, NC	31	4331	8	359
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	48	1131	29	703
910060	Hydraulic presses, NC	4	4427	1	2343
910090	Hydraulic presses, non-NC	307	4675	285	3591
990030	Presses, n.e.c., NC	0	0	0	0
990035	Mechanical transfer presses, non-NC	1	10097	0	0
990045	Mechanical presses, n.e.c., non-NC	21	1124	7	839
990060	Presses, n.e.c., non-NC	56	4947	24	2261
8463100080	Draw benches for bars, tubes, profiles, wire or the like	56	4418	17	2145
200080	Thread rolling machines	8	527	4	167
300080	Machines for working wire	202	11472	94	5743
900080	Metal forming machine tools, n.e.c.	196	6491	83	2211
9800000002	Used or rebuilt machine tools	1711	5488	233	2697
9900000002	Machine tools valued at less than $3,025	1643	536	825	299
	Forming Total			1894	40675
	Y-T-D Forming Total	4863	91009		
	NC Y-T-D Forming Total	123	16208		
	Cutting and Forming Totals:				
	Monthly Total			97375	150935
	Y-T-D Total	172715	339840		
	NC Y-T-D Total	1795	173528		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	88965	0	42189
2000000000	Parts for working rubber or plastics - heading 8477	0	54771	0	25745
2710003070	Quenching or cutting oils	0	77	0	38
8428900010	Industrial robots for lifting, handling, loading or unload	234	4404	107	1667
8431390080	Parts industrial robots, handling and loading - heading 8428	0	18277	0	6006
8456101010	Laser, light or photon beam for working metal, NC	20	4586	8	1650
101020	Laser, light or photon beam for working metal, non-NC	10	3415	5	1396
105000	Laser, light or photon beam for other materials	13	1828	10	776
201010	Ultrasonic processes for working metal, NC	0	0	[illegible]	0
201050	Ultrasonic processes for working metal, non-NC	6	39	[illegible]	0
205000	Ultrasonic processes for working other materials	24	142	0	0
8477103000	Injection molding mach., for manufacturing shoes	2	297	2	297
106010	Injection molding mach., for rubber or oth. thermosetting	142	18559	51	5011
106050	Injection molding mach., for thermoplastics	320	31382	152	16005
200005	Extruders; rubber or other thermosetting mat., single screw	3	854	1	7
200015	Extruders; rubber or thermosetting, other incl. multi. screw	50	6944	23	3882
200035	Extruders; thermoplastics, single screw, less than 6.4cm	8	209	3	83
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	30	4003	8	931
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	3	420	0	0
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	27	2406	5	304
300000	Blow molding machines	27	9159	8	3512
400000	Vacuum-molding and other thermoforming machines	3	1156	1	16
510010	Machines for molding or retreading pneumatic tires	104	4072	44	3158
510090	Machines for molding or otherwise forming inner tubes	22	1093	13	786
590000	Machines for molding or otherwise forming n.e.c.	94	6689	47	2211
800000	Machines for working rubber or plastics n.e.c.	339	33347	157	12497
8479899040	Industrial robots, n.e.c.	516	13214	286	7011
908040	Industrial robot parts	0	6269	0	3396
8537100030	Numerical controls for controlling machine tools	867	5245	495	3009
9024100000	Machines and appliances for testing metals	0	2090	0	1129
9031100000	Machines for balancing mechanical parts	0	470	0	441
300000	Profile projectors	0	1252	0	407
9032810020	Industrial process control instr., hydraulic	24155	584	14572	372
810060	Industrial process control instr., pneumatic	29990	840	12363	619

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	5	332	1	147	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	5	48	0	0	4	24
210080	0	0	0	0	5	913	0	0	2	434
290030	8	265	0	0	12	345	0	0	0	0
290040	0	0	0	0	6	386	0	0	0	0
290050	0	0	0	0	26	543	1	78	22	866
310080	0	0	0	0	0	0	1	35	0	0
390050	3	54	0	0	3	78	0	0	1	30
410080	0	0	0	0	1	2	1	9	6	348
490050	0	0	0	0	1	239	0	0	3	133
910060	0	0	0	0	0	0	0	0	1	2343
910090	0	0	0	0	2	168	0	0	55	44
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	9	241	0	0	3	1453
8463100080	0	0	0	0	0	0	0	0	4	276
200080	0	0	0	0	0	0	0	0	0	0
300080	1	19	0	0	4	409	0	0	6	1665
900080	0	0	0	0	4	41	0	0	6	1092
9800000002	6	86	0	0	38	385	0	0	33	233
9900000002	0	0	0	0	10	9	0	0	21	16
Month Tot	18	425	0	0	131	4138	4	269	167	8958
Y-T-D Tot	35	1279	3	39	318	7589	21	546	317	19164
NC YTD Tot	0	0	0	0	8	1214	2	44	16	5915
C&F Month	23	459	23	191	307	6311	157	858	495	23037
C&F Y-T-D	44	2081	82	1206	611	10820	264	3685	1112	58290
C&F NC YTD	0	0	4	391	24	1489	6	407	126	27117

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	243	0	38	0	4741	0	630	0	9661
2000000000	0	9	0	7	0	3861	0	3217	0	8837
2710003070	0	0	0	0	0	32	0	0	0	0
8428900010	0	0	0	0	22	370	1	51	9	90
8431390080	0	4	0	6	0	1018	0	73	0	457
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	3	264
105000	0	0	0	0	4	413	0	0	2	321
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	47
106010	0	0	0	0	3	43	1	82	4	364
106050	7	61	0	0	50	5964	0	0	32	3861
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	1	3	0	0	5	2404
200035	0	0	0	0	3	83	0	0	0	0
200045	0	0	0	0	1	4	0	0	5	917
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	1	50	0	0	1	78
300000	0	0	0	0	1	233	0	0	3	2218
400000	0	0	0	0	0	0	1	16	0	0
510010	0	0	0	0	23	769	0	0	4	1710
510090	0	0	0	0	1	5	0	0	0	0
590000	0	0	0	0	19	503	0	0	3	120
800000	2	36	0	0	29	317	6	894	54	5732
8479899040	0	0	0	0	2	12	0	0	6	528
908040	0	0	0	0	0	41	0	18	0	1859
8537100030	0	0	0	0	0	0	0	0	3	36
9024100000	0	0	0	0	0	57	0	0	0	464
9031100000	0	0	0	0	0	3	0	0	0	406
300000	0	0	0	0	0	15	0	0	0	3
9032810020	0	0	0	0	0	0	0	0	100	5
810060	0	0	2	2	17	20	200	16	2	2

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	7	4737	0	0	1	300	0	0
8462100030	1	200	3	182	0	0	0	0	0	0
100050	3	125	11	783	0	0	0	0	0	0
210080	0	0	34	2527	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	20	338	8	624	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	6	250	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	25	331
910060	0	0	0	0	0	0	0	0	0	0
910090	1	21	180	770	1	29	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	3	198	0	0	0	0	0	0
990060	0	0	6	307	0	0	0	0	0	0
8463100080	0	0	13	1869	0	0	0	0	0	0
200080	0	0	3	136	0	0	0	0	0	0
300080	13	298	66	2604	0	0	0	0	0	0
900080	1	83	9	291	0	0	0	0	0	0
9800000002	5	1112	8	279	0	0	0	0	0	0
9900000002	0	0	21	35	0	0	0	0	20	5
Month Tot	44	2177	378	15591	1	29	1	300	45	336
Y-T-D Tot	141	6362	822	40471	1	29	1	300	89	915
NC YTD Tot	4	536	80	7911	0	0	0	0	0	0
C&F Month	1627	3922	4986	73764	49	2093	72	1036	236	2651
C&F Y-T-D	4868	10873	8944	162135	1705	3391	251	2150	604	5685
C&F NC YTD	15	2257	1015	111692	25	1712	12	755	134	900
Other Manufacturing Technology										
1000000000	0	1533	0	11701	0	84	0	286	0	286
2000000000	0	813	0	5333	0	102	0	243	0	3
2710003070	0	0	0	6	0	0	0	0	0	0
8428900010	0	0	74	1112	0	0	0	0	0	0
8431390080	0	29	0	1822	0	0	0	0	0	4
8456101010	0	0	6	1624	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	250	0	0	0	0	0	0	0	0
106010	3	338	21	3068	2	154	0	0	0	0
106050	2	268	43	5258	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	6	1337	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	2	10	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	1	596	1	329	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	1	82	1	3	0	0	0	0	0	0
510090	4	95	8	686	0	0	0	0	0	0
590000	0	0	12	567	0	0	0	0	0	0
800000	13	365	25	3067	0	0	0	0	0	0
8479899040	1	178	171	5273	0	0	0	0	3	3
908040	0	31	0	923	0	0	0	0	0	0
8537100030	0	0	491	2971	0	0	0	0	0	0
9024100000	0	18	0	56	0	0	0	0	0	148
9031100000	0	3	0	4	0	0	0	0	0	0
300000	0	0	0	267	0	0	0	0	0	0
9032810020	0	0	1526	90	0	0	0	0	0	0
810060	0	0	54	437	5000	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
February 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	18	2	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	547	13	573	3	10	3	35
210080	0	0	4	97	0	0	0	0	2	93
290030	0	0	0	0	0	0	0	0	0	0
290040	1	50	0	0	0	0	0	0	0	0
290050	13	342	14	44	0	0	4	745	1	6
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	6	94	2	36
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	2	2473	0	0	37	36	7	49	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	1	547	0	0	1	81	2	13
990060	0	0	0	0	6	260	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	1	31	0	0	0	0
300080	0	0	2	736	0	0	2	12	0	0
900080	0	0	45	480	1	5	11	108	6	111
9800000002	5	57	1	3	7	43	129	491	1	7
9900000002	6	13	6	13	647	173	6	12	88	23
Month Tot	27	2934	74	2467	730	1124	169	1602	105	324
Y-T-D Tot	39	3317	189	4414	1279	1767	1392	2956	216	1858
NC YTD Tot	0	0	5	112	0	0	1	186	7	290
C&F Month	131	4338	143	9392	79335	10174	358	8293	9433	4417
C&F Y-T-D	769	7784	333	16035	137199	25488	1730	15333	14199	14883
C&F NC YTD	3	1303	49	7922	205	7486	61	6423	116	3674

Other Manufacturing Technology

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1191	0	2872	0	1334	0	3856	0	3730
2000000000	0	127	0	488	0	352	0	499	0	1856
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	1	44	0	0	0	0	0	0	0	0
8431390080	0	586	0	117	0	120	0	614	0	1154
8456101010	0	0	0	0	0	0	0	0	2	26
101020	0	0	0	0	0	0	1	502	1	630
105000	0	0	0	0	0	0	3	4	1	38
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	14	893	3	68	0	0	0	0
106050	0	0	2	217	5	82	3	81	8	214
200005	0	0	0	0	0	0	0	0	1	7
200015	0	0	0	0	10	91	0	0	1	48
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	3	176	0	0
300000	0	0	0	0	0	0	0	0	2	137
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	10	85	5	508
510090	0	0	0	0	0	0	0	0	0	0
590000	3	259	0	0	2	428	1	33	7	301
800000	0	0	6	1237	8	93	6	550	8	206
8479899040	0	0	10	617	0	0	0	0	93	400
908040	0	66	0	134	0	3	0	161	0	161
8537100030	0	0	1	2	0	0	0	0	0	0
9024100000	0	0	0	46	0	0	0	199	0	143
9031100000	0	0	0	0	0	0	0	21	0	4
300000	0	0	0	0	0	0	0	123	0	0
9032810020	0	0	2684	127	0	0	2000	19	8262	132
810060	5128	20	5	4	1700	7	10	3	245	91

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	105	295	0	0	105	295
Bulgaria	0	0	0	0	0	0
Czechoslovakia	8	57	2	13	10	70
Denmark	28	185	0	0	28	185
Finland	0	0	2	93	2	93
Hungary	4	138	0	0	4	138
Ireland	48	105	0	0	48	105
Luxembourg	0	0	1	13	1	13
Netherlands	8	299	6	112	14	411
Norway	0	0	1	6	1	6
Poland	23	554	1	5	24	559
Portugal	0	0	2	36	2	36
Romania	1	9	0	0	1	9
USSR	1	12	0	0	1	12
Yugoslavia	8	273	0	0	8	273
Oth Europe	2	27	0	0	2	27
TOTAL	2858	35733	563	19448	3421	55181
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	205	60	0	0	205	60
Oth N & C Am.	0	0	0	0	0	0
TOTAL	381	2233	131	4138	512	6371
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	23	191	0	0	23	191
OCEANIA						
Australia	32	174	0	0	32	174
New Zealand	2	76	0	0	2	76
Oth Oceania	0	0	0	0	0	0
TOTAL	34	250	0	0	34	250

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
February 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	8323	1137	88	23	8411	1160
Hong Kong	504	3	2	22	506	25
India	9	98	0	0	9	98
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	13	447	0	0	13	447
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	4	146	0	0	4	146
Oth Asia	0	0	0	0	0	0
TOTAL	92185	71854	1200	17089	93385	88943
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

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NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

REPORT

STATISTICAL

No. 63-91 June 5, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – MARCH 1991

(Values in Millions of U.S. Dollars)

	Mar. 1991	Feb. 1991	Average Dec.-Feb.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 45.7	$ 58.1	$ 50.3	$147.4	$173.2	(14.9%)
Imports	$133.1	$110.3	$127.1	$382.0	$425.7	(10.3%)
Balance	($ 87.4)	($ 52.2)	($ 76.8)	($234.6)	($252.5)	(7.1%)
METAL FORMING MACHINE TOOLS						
Exports	$ 36.1	$ 34.3	$ 36.6	$102.8	$116.3	(11.6%)
Imports	$ 43.9	$ 40.7	$ 48.9	$134.9	$112.7	19.7%
Balance	($ 7.8)	($ 6.4)	($ 12.3)	($ 32.1)	$ 3.6	NM
MACHINE TOOL TOTAL						
Exports	$ 81.8	$ 92.5	$ 86.9	$250.2	$289.5	(13.6%)
Imports	$177.0	$150.9	$176.0	$516.8	$538.5	(4.0%)
Balance	($ 95.2)	($ 58.4)	($ 89.1)	($266.6)	($249.0)	7.1%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 28.6	$ 33.2	$ 28.8	$ 82.8	$100.0	(17.2%)
Imports	$ 96.1	$ 81.3	$ 84.2	$269.7	$293.8	(8.2%)
Balance	($ 67.5)	($ 48.1)	($ 55.4)	($186.9)	($193.8)	(3.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$139.1	$124.3	$135.7	$404.9	$450.0	(10.0%)
Imports	$182.7	$144.6	$ 168.7	$509.7	$506.9	0.6%
Balance	($ 43.6)	($ 20.3)	($ 33.0)	($104.8)	($ 56.9)	84.2%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NM = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- U.S. machine tool imports in the first quarter of 1991 were down 4% from 1990. Imports in March of $177.0 million were about equal to the average for the previous three months.

- U.S. machine tool exports of $250.2 million through March were down 14% from last year. Exports in March were 12% lower than February.

- Exports of NC machine tools in the first quarter were down 17% from last year; imports of NC machines were down 8%.

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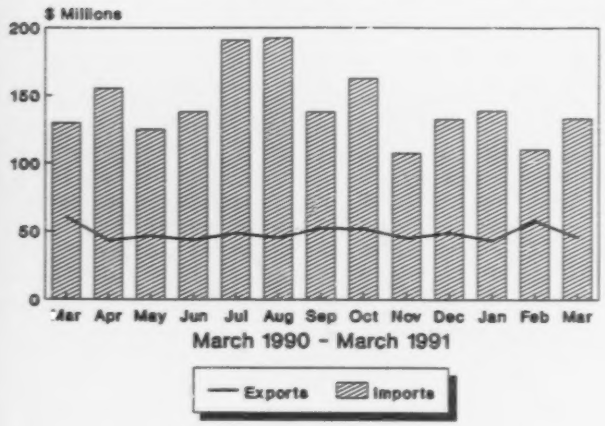
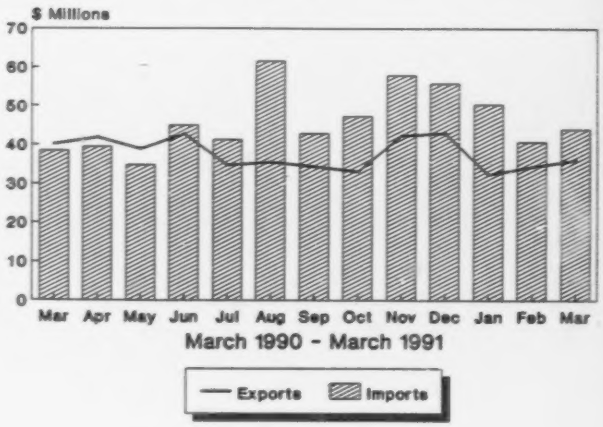
U.S. MONTHLY TRADE IN MACHINE TOOLS



METAL CUTTING



METAL FORMING

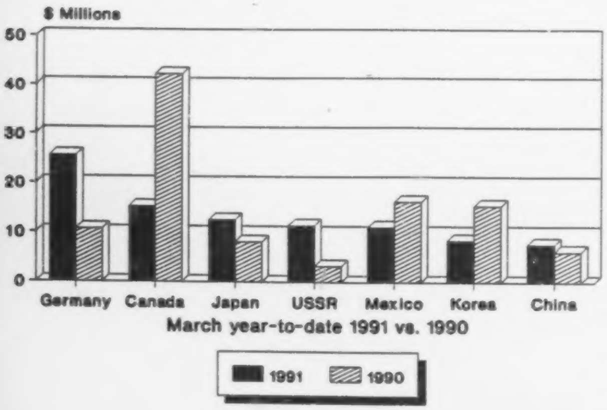
METAL CUTTING MACHINE TOOLS

Exports

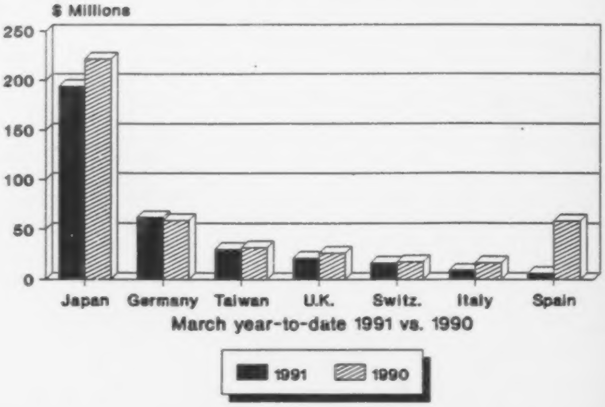
- Year-to-date exports of metal cutting machines were $102.8 million, down 12% from $116.3 million in 1990. Exports of NC machines through March ($64.4 million) were down 17% from last year's $78.0 million.

- Germany was the largest export market in March ($6.5 million) and for the first quarter ($25.5 million). Germany's total is 139% higher than last year. Other top markets so far in 1991 include Canada ($15.3 million), Japan ($12.6 million) and the Soviet Union ($11.4 million).

- Exports of grinding machines through March were $24.6 million, down 36% from $38.3 million in 1990. Exports of lathes so far in 1991 ($12.7 million) were down 34% from 1990; exports of machining centers ($13.1 million) were down 41%.



LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES

Imports

- Imports of metal cutting machines in 1991 through March were $382.0 million, down 10% from last year. Imports of NC machines ($246.0 million) were down 9%.

- Imports from Japan in 1991 through March were down 12% from last year to $194.2 million. Imports from Germany ($62.2 million) were up 5%; imports from Taiwan ($30.5 million) and the United Kingdom ($21.6 million) were down 5% and 19%, respectively.

- Imports of non-NC lathes were down 26% to $20.6 million in 1991 through March; imports of machining centers were down 24% to $79.5 million. Imports of boring machines were up 80% to $13.2 million.

METAL FORMING MACHINE TOOLS

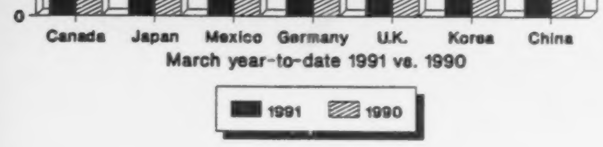
Exports

- Exports of metal forming machines in March were $36.1 million, up slightly from February and about equal to the average for the previous three months. Year-to-date exports of $102.8 million were down 12% from last year.

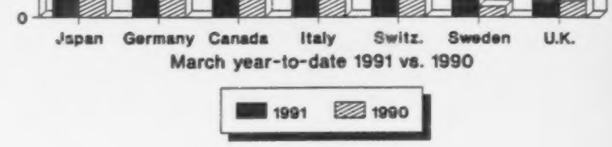
- Exports of presses so far in 1991 were down 38% to $18.0 million; exports of bending and forming machines were up 25% to $18.4 million.

- Canada is the top metal forming export market so far in 1991 at $15.1 million (down 18% from 1990), followed by Japan ($12.9 million, up 19%), Mexico ($12.6 million, even with last year), Germany ($10.2 million, up 40%) and the United Kingdom ($6.6 million, down 2%.)

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Imports of metal forming machines in the first quarter were $134.9 million, up 20% over last year's $112.7 million. Imports from Japan were up 32% to $59.3 million; imports from Germany were up 76% to $26.3 million. Other top import sources include Canada ($12.8 million), Italy ($10.2 million) and Switzerland ($5.8 million).

- Imports of presses of $34.3 million in 1991 through March were up from $14.8 million last year. Imports of punching and shearing machines were down to $12.7 million from $19.6 million last year at this time.

OTHER MANUFACTURING TECHNOLOGY

Exports

- Year-to-date exports of machine tool parts and accessories were $165.8 million, down from $184.4 million last year. The top export markets so far in 1991: Canada ($29.7 million), Germany ($18.2 million), Japan ($16.2 million), the United Kingdom ($14.0 million) and Mexico ($12.6 million).

- Exports of machines and appliances for testing metals were $15.2 million in 1991 through March, down from $18.0 million in 1990. Exports of blow molding machines were up from 124 to 204 units and from $8.1 million to $9.5 million over last year.

Imports

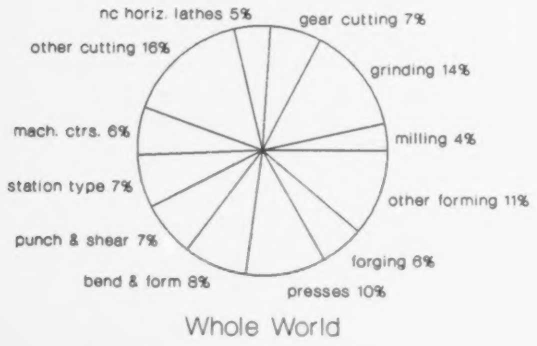
- Imports of machine tool parts and accessories were $136.7 million, down from $147.3 million last year. The top import sources: Japan ($36.0 million), Germany ($34.0 million), Canada ($17.8 million) and the United Kingdom ($11.7 million).

- Imports of industrial robots were $40.8 million in 1991 through March, up from $32.7 million in 1990. The top imports sources: Japan ($33.3 million, 82% of the total) and Germany ($2.2 million).

MONTHLY FOCUS

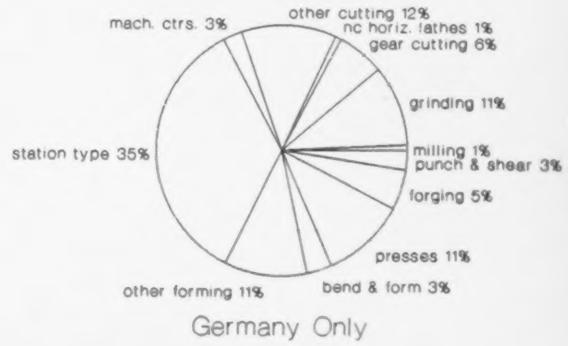
For the six months ending March 31, 1991 Germany was the top U.S. machine tool export market. Not in recent memory -- and possibly ever -- has a country other than Mexico or Canada been the top export market for so long. The charts below detail U.S. machine tool exports from January 1990 through March 1991 by type of machine. The chart on the left covers total U.S. exports; the chart on the right covers U.S. exports to Germany only. The figures are the percentage of total exports accounted for by each type of machine. The most striking difference between the two charts is station type machines, which accounted for 7% of total U.S. machine tool exports but 35% of U.S. exports to Germany during this period. As the charts show, Germany is a "less-than-average" market for machining centers, grinding machines, punching and shearing machines, and NC horizontal lathes, among others, but a "better-than-average" market for presses and station type machines.

U.S. Machine Tool Exports
Jan. 1990 - March 1991



Data do not include used or rebuilt machines or machines valued under $2,500. Total = $1,123.6 million.

U.S. Machine Tool Exports
Jan. 1990 - Mar. 1991



Data do not include used or rebuilt machines or machines valued under $2,500. Total = $113.7 million.

1991 EXPORTS

METAL CUTTING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
West Germany	$6,535,385	$10,184,699	-35.83%	$25,547,897	$10,672,447	139.38%
Canada	5,169,017	6,008,374	-13.97	15,257,045	42,208,675	-63.85
Japan	4,762,767	3,606,994	32.04	12,599,772	8,096,942	55.61
USSR	39,000	10,472,534	-99.63	11,434,601	3,207,507	256.49
Mexico	5,000,595	2,262,432	121.03	11,118,994	16,219,201	-31.45
Korea	3,226,403	2,708,494	19.12	8,406,084	15,490,161	-45.73
China	4,301,571	2,005,072	114.53	7,662,093	6,155,004	24.49
U.K.	2,079,799	3,135,990	-33.68	6,507,381	17,896,322	-63.64
Italy	54,072	3,222,563	-98.32	5,495,062	5,173,373	6.22
France	726,385	780,936	-6.99	4,643,658	3,413,790	36.03
India	648,123	1,515,489	-57.23	3,961,560	7,278,318	-45.57
Belgium	428,857	1,655,669	-74.10	3,060,951	6,951,317	-55.97
Venezuela	1,504,285	667,127	125.49	2,919,963	1,373,368	112.61
Taiwan	2,043,602	200,118	921.20	2,746,709	2,561,856	7.22
Brazil	976,273	1,151,627	-15.23	2,475,127	6,099,394	-59.42
Netherlands	371,804	1,186,314	-68.66	2,194,540	999,667	119.53
Switzerland	329,406	1,540,372	-78.62	2,000,799	1,959,758	2.09
Australia	639,136	108,172	490.85	1,745,472	4,618,489	-62.21
Singapore	595,227	669,978	-11.16	1,630,597	1,828,529	-10.82
Spain	217,355	61,080	255.85	465,527	1,337,639	-65.20
Thailand	36,239	248,246	-85.40	452,330	966,297	-53.19
Austria	418,513	18,797	2,126.49	447,368	99,719	348.63
Malaysia	27,794	3,800	631.42	70,801	373,029	-81.02
Indonesia	7,354	33,600	-78.11	56,079	90,636	-38.13

METAL FORMING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
Canada	$6,425,775	$ 3,589,513	79.02%	$15,102,950	$18,432,465	-18.06%
Japan	4,366,654	5,813,540	-24.89	12,926,848	10,880,046	18.81
Mexico	4,794,606	3,796,173	26.30	12,647,057	12,685,530	-0.30
West Germany	1,199,684	2,753,875	-56.44	10,160,431	7,262,905	39.89
U.K.	2,464,820	2,017,333	22.18	6,631,311	6,793,807	-2.39
Korea	4,147,350	244,380	1,597.09	6,056,986	11,812,389	-48.72
China	77,850	2,046,901	-96.20	3,849,379	5,417,403	-28.94
Netherlands	1,068,955	1,282,795	-16.67	2,521,171	1,964,828	28.32
Taiwan	1,058,035	1,198,916	-11.75	2,263,921	5,521,412	-59.00
Brazil	1,225,025	97,426	1,157.39	2,230,234	1,063,235	109.76
France	1,037,362	405,202	156.01	2,226,096	4,952,111	-55.05
Italy	531,138	403,870	31.51	2,151,405	2,377,564	-9.51
Singapore	1,141,403	458,667	148.85	1,988,238	1,070,878	85.66
Thailand	690,799	761,803	-9.32	1,608,230	369,997	334.66
Australia	445,684	182,734	143.90	792,509	1,001,483	-20.87
Malaysia	4,800	450,394	-98.93	638,089	279,926	127.95
Switzerland	215,852	28,032	670.02	609,087	947,337	-35.71
India	37,146	209,322	-82.25	529,027	4,674,478	-88.68
Indonesia	50,000	0	NA	408,560	24,195	1,588.61
Spain	191,226	141,174	35.45	351,213	808,148	-56.54
Venezuela	178,234	82,090	117.12	350,589	276,304	26.89
Belgium	27,480	46,368	-40.73	152,766	1,273,642	-88.01
Austria	0	83,602	-100.00	83,602	770,383	-89.15
USSR	0	0	NA	0	0	NA

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
West Germany	$ 7,735,069	$12,938,574	-40.22%	$35,708,328	$17,935,352	99.09%
Canada	11,594,792	9,597,887	20.81	30,359,995	60,641,140	-49.93
Japan	9,129,421	9,420,534	-3.09	25,526,620	18,976,988	34.51
Mexico	9,795,201	6,058,605	61.67	23,766,051	28,904,731	-17.78
Korea	7,373,753	2,952,874	149.71	14,463,070	27,302,550	-47.03
U.K.	4,544,619	5,153,323	-11.81	13,138,692	24,690,129	-46.79
China	4,379,421	4,051,973	8.08	11,511,472	11,572,407	-0.53
USSR	39,000	10,472,534	-99.63	11,434,601	3,207,507	256.49
Italy	585,210	3,626,433	-83.86	7,646,467	7,550,937	1.27
France	1,763,747	1,186,138	48.70	6,869,754	8,365,901	-17.88
Taiwan	3,101,637	1,399,034	121.70	5,010,630	8,083,268	-38.01
Netherlands	1,440,759	2,469,109	-41.65	4,715,711	2,964,495	59.07
Brazil	2,201,298	1,249,053	76.24	4,705,361	7,162,629	-34.31
India	685,269	1,724,811	-60.27	4,490,587	11,952,796	-62.43
Singapore	1,736,630	1,128,645	53.87	3,618,835	2,899,407	24.81
Venezuela	1,682,519	749,217	124.57	3,270,552	1,649,672	98.25
Belgium	456,337	1,702,037	-73.19	3,213,717	8,224,959	-60.93
Switzerland	545,258	1,568,404	-65.23	2,609,886	2,907,095	-10.22
Australia	1,084,820	290,906	272.91	2,537,981	5,619,972	-54.84
Thailand	727,038	1,010,049	-28.02	2,060,560	1,336,294	54.20
Spain	408,581	202,254	102.01	816,740	2,145,787	-61.94
Malaysia	32,594	454,194	-92.82	708,890	652,955	8.57
Austria	418,513	102,399	308.71	530,970	870,102	-38.98
Indonesia	57,354	33,600	70.70	464,639	114,831	304.63

1991 IMPORTS

METAL CUTTING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
Japan	$72,546,463	$58,173,452	24.71%	$194,210,249	$221,517,589	-12.33%
West Germany	23,034,113	14,079,563	63.60	62,159,576	59,029,404	5.30
Taiwan	6,732,173	9,050,342	-25.61	30,452,815	31,902,066	-4.54
U.K.	9,254,974	6,691,361	38.31	21,631,359	26,660,500	-18.86
Switzerland	5,124,111	6,924,518	-26.00	16,745,441	17,388,488	-3.70
Italy	4,523,078	1,744,569	159.27	9,033,479	16,595,735	-45.57
Spain	1,471,134	2,314,406	-36.44	6,240,748	5,831,855	7.01
Sweden	1,209,298	1,403,180	-13.82	5,676,589	3,404,654	66.73
Canada	1,387,153	2,173,091	-36.17	4,618,762	5,980,456	-22.77
France	1,437,921	589,037	144.11	4,577,369	6,034,640	-24.15
Korea	968,674	2,063,478	-53.06	4,330,035	5,781,692	-25.11
Singapore	629,998	735,823	-14.38	2,479,846	5,694,712	-56.45
Brazil	15,045	190,907	-92.12	1,182,368	4,054,798	-70.84
Belgium	225,530	34,048	562.39	1,027,622	540,203	90.23

METAL FORMING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
Japan	$18,828,453	$15,590,823	20.77%	$59,299,949	$45,039,072	31.66%
West Germany	7,157,235	8,957,809	-20.10	26,321,702	14,941,906	76.16
Canada	5,205,499	4,137,691	25.81	12,794,359	14,457,081	-11.50
Italy	3,840,972	2,177,188	76.42	10,203,187	11,208,329	-8.97
Switzerland	1,393,150	2,467,453	-43.54	5,807,318	6,949,810	-16.44
Sweden	1,706,037	2,934,413	-41.86	5,023,090	2,466,259	103.67
U.K.	1,304,183	1,602,076	-18.59	4,260,391	3,947,833	7.92
Belgium	1,492,395	425,159	251.02	2,771,467	5,569,763	-50.24
Taiwan	468,429	1,123,609	-58.31	2,235,725	2,452,955	-8.86
Spain	100,185	336,142	-70.20	1,015,520	900,575	12.76
France	163,070	268,785	-39.33	709,110	367,908	92.74
Brazil	500,000	0	NA	538,940	0	NA
Singapore	0	300,254	-100.00	300,254	8,790	3,315.86
Korea	253,675	29,384	763.31	283,059	63,891	343.03

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MARCH	FEBRUARY	%CHANGE	MAR YTD'91	MAR YTD'90	%CHANGE
Japan	$91,374,916	$73,764,275	23.87%	$253,510,198	$266,556,661	-4.89%
West Germany	30,191,348	23,037,372	31.05	88,481,278	73,971,310	19.62
Taiwan	7,200,602	10,173,951	-29.23	32,688,540	34,355,021	-4.85
U.K.	10,559,157	8,293,437	27.32	25,891,750	30,608,333	-15.41
Switzerland	6,517,261	9,391,971	-30.61	22,552,759	24,338,298	-7.34
Italy	8,364,050	3,921,757	113.27	19,236,666	27,804,064	-30.81
Canada	6,592,652	6,310,782	4.47	17,413,121	20,437,537	-14.80
Sweden	2,915,335	4,337,593	-32.79	10,699,679	5,870,913	82.25
Spain	1,571,319	2,650,548	-40.72	7,256,268	6,732,430	7.78
France	1,600,991	857,822	86.63	5,286,479	6,402,548	-17.43
Korea	1,222,349	2,092,862	-41.59	4,613,094	5,845,583	-21.08
Belgium	1,717,925	459,207	274.11	3,799,089	6,109,966	-37.82
Singapore	629,998	1,036,077	-39.19	2,780,100	5,703,502	-51.26
Brazil	515,045	190,907	169.79	1,721,308	4,054,798	-57.55

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		MAR '91 Y-T-D TOTALS	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	16,582	34,976,354
Boring Machines	8	572,189	8	2,689,884	7	490,980	23	3,753,053
Drilling Machines	104	2,125,292	72	2,302,444	98	2,731,002	274	7,158,738
Gear Cutting Machines	14	7,378,919	23	3,441,470	16	3,898,627	53	14,719,016
Grinding Machines	244	5,937,543	272	10,254,977	275	8,387,839	791	24,580,359
Horizontal Lathes NC	15	2,388,500	33	3,043,968	29	3,419,112	77	8,851,580
Vertical Lathes NC	1	161,310	2	341,835	6	371,174	9	874,319
Lathes Non-NC	37	817,093	46	1,273,108	34	912,266	117	3,002,467
Milling Machines	21	1,285,651	27	1,256,940	56	1,629,636	104	4,172,227
Machining Centers	18	2,251,834	27	4,699,366	21	6,179,301	66	13,130,501
Station Type Machines	7	6,763,963	10	16,280,662	3	3,750,445	20	26,795,070
Other Metal Cutting	223	7,078,662	278	7,046,503	322	7,317,458	823	21,442,623
Punching & Shearing Machines	108	4,513,331	79	5,456,279	85	4,584,562	272	14,554,172
Bending & Forming Machines	116	4,251,882	102	6,952,107	119	7,232,573	337	18,436,562
Presses	293	7,418,063	96	5,734,227	128	4,847,879	517	18,000,169
Forging Machines	11	2,746,151	19	5,146,204	21	4,124,370	51	12,016,725
Other Metal Forming	231	7,030,224	185	7,182,512	193	9,543,993	609	23,756,729
TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	20,725	250,220,664

PRODUCT TYPES	MARCH 1990		MAR '90 Y-T-D TOTALS	
	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,847	11,979,000	13,289	35,138,171
Boring Machines	13	1,519,123	34	3,884,727
Drilling Machines	94	2,533,602	257	5,709,446
Gear Cutting Machines	17	3,507,653	77	12,763,125
Grinding Machines	459	12,592,065	958	38,273,933
Horizontal Lathes NC	35	2,648,406	113	12,574,403
Vertical Lathes NC	16	892,377	21	2,115,514
Lathes Non-NC	76	1,855,222	182	4,441,557
Milling Machines	75	5,272,375	152	12,098,011
Machining Centers	50	8,542,651	149	22,132,360
Station Type Machines	8	4,611,947	46	17,738,570
Other Metal Cutting	364	9,303,138	990	23,907,400
Punching & Shearing Machines	155	5,546,446	383	19,800,269
Bending & Forming Machines	128	5,372,091	390	14,740,514
Presses	273	10,390,057	662	28,867,691
Forging Machines	31	3,378,097	73	10,671,928
Other Metal Forming	312	10,516,058	841	24,645,102
TOTAL	7,953	100,460,308	18,617	289,502,721

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE FEB '91 – MAR '91		% CHANGE MAR '90 – MAR '91		% CHANGE YTD '90 – YTD '91	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	11.37	31.70	1.21	3.18	24.78	-0.46
Boring Machines	-12.50	-81.75	-46.15	-67.68	-32.35	-3.39
Drilling Machines	36.11	18.61	4.26	7.79	6.61	25.38
Gear Cutting Machines	-30.43	13.28	-5.88	11.15	-31.17	15.32
Grinding Machines	1.10	-18.21	-40.09	-33.39	-17.43	-35.78
Horizontal Lathes NC	-12.12	12.32	-17.14	29.10	-31.86	-29.61
Vertical Lathes NC	200.00	8.58	-62.50	-58.41	-57.14	-58.67
Lathes Non-NC	-26.09	-28.34	-55.26	-50.83	-35.71	-32.40
Milling Machines	107.41	29.65	-25.33	-69.09	-31.58	-65.51
Machining Centers	-22.22	31.49	-58.00	-27.67	-55.70	-40.67
Station Type Machines	-70.00	-76.96	-62.50	-18.68	-56.52	51.06
Other Metal Cutting	15.83	3.85	-11.54	-21.34	-16.87	-10.31
Punching & Shearing Machines	7.59	-15.98	-45.16	-17.34	-28.98	-26.50
Bending & Forming Machines	16.67	4.03	-7.03	34.63	-13.59	25.07
Presses	33.33	-15.46	-53.11	-53.34	-21.90	-37.65
Forging Machines	10.53	-19.86	-32.26	22.09	-30.14	12.60
Other Metal Forming	4.32	32.88	-38.14	-9.24	-27.59	-3.60
TOTAL	11.19	-11.58	-7.82	-18.59	11.32	-13.57

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991 Units	JANUARY 1991 Value	FEBRUARY 1991 Units	FEBRUARY 1991 Value	MARCH 1991 Units	MARCH 1991 Value	MAR '91 Y-T-D TOTALS Units	MAR '91 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	230,106	43,693,588
Boring Machines	75	3,212,626	65	3,295,233	55	6,672,018	195	13,179,877
Drilling Machines	136	5,284,960	72	2,124,951	105	5,761,640	313	13,171,551
Gear Cutting Machines	34	7,247,022	30	2,608,872	12	3,256,264	76	13,112,158
Grinding Machines	662	23,141,603	464	17,045,322	540	20,820,588	1,666	61,007,513
Horizontal Lathes NC	158	17,509,455	251	25,854,656	244	28,306,454	653	71,670,565
Vertical Lathes NC	9	1,367,349	15	2,253,656	9	2,973,011	33	6,594,016
Lathes Non-NC	722	8,815,703	340	4,755,176	312	7,055,881	1,374	20,626,760
Milling Machines	449	12,771,541	257	2,795,380	250	4,970,541	956	20,537,462
Machining Centers	293	33,595,255	212	22,089,069	167	23,849,656	672	79,533,980
Station Type Machines	14	4,189,738	4	1,830,253	5	1,401,630	23	7,421,621
Other Metal Cutting	448	11,368,644	217	12,635,073	254	16,773,980	919	40,777,697
Punching & Shearing Machines	67	5,697,766	59	1,638,364	89	5,334,266	215	12,670,396
Bending & Forming Machines	189	6,557,096	183	8,695,550	147	8,228,937	519	23,481,583
Presses	72	16,236,188	317	9,033,944	163	8,995,976	552	34,266,108
Forging Machines	59	5,028,586	47	2,528,010	51	5,954,214	157	13,510,810
Other Metal Forming	286	13,786,011	230	15,783,509	277	12,006,374	793	41,575,894
TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	239,222	516,831,579

PRODUCT TYPES	MARCH 1990 Units	MARCH 1990 Value	MAR '90 Y-T-D TOTALS Units	MAR '90 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	64,814	11,170,439	210,990	37,026,061
Boring Machines	41	2,141,056	138	7,317,772
Drilling Machines	131	4,767,643	384	12,075,752
Gear Cutting Machines	74	3,683,095	150	12,541,739
Grinding Machines	723	19,376,535	2,076	65,982,848
Horizontal Lathes NC	290	24,294,192	907	83,060,761
Vertical Lathes NC	10	1,702,771	42	6,419,758
Lathes Non-NC	812	10,071,175	1,895	27,849,100
Milling Machines	490	4,451,840	1,309	19,257,532
Machining Centers	270	30,976,925	900	104,368,288
Station Type Machines	15	3,697,896	40	10,526,578
Other Metal Cutting	381	15,326,449	1,314	45,336,546
Punching & Shearing Machines	203	8,518,187	435	19,611,194
Bending & Forming Machines	191	7,366,810	549	19,732,805
Presses	100	4,367,203	807	14,841,185
Forging Machines	104	5,559,426	307	19,921,182
Other Metal Forming	205	10,852,813	753	32,599,801
TOTAL	68,854	168,324,455	222,996	538,468,902

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE FEB '91 - MAR '91		% CHANGE MAR '90 - MAR '91		% CHANGE YTD '90 - YTD '91	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-32.54	-8.38	-1.52	30.97	9.06	18.01
Boring Machines	-15.38	102.47	34.15	211.62	41.30	80.11
Drilling Machines	45.83	171.14	-19.85	20.85	-18.49	9.07
Gear Cutting Machines	-60.00	24.82	-83.78	-11.59	-49.33	4.55
Grinding Machines	16.38	22.15	-25.31	7.45	-19.75	-7.54
Horizontal Lathes NC	-2.79	9.48	-15.86	16.52	-28.00	-13.71
Vertical Lathes NC	-40.00	31.92	-10.00	74.60	-21.43	2.71
Lathes Non-NC	-8.24	48.38	-61.58	-29.94	-27.49	-25.93
Milling Machines	-2.72	77.81	-48.98	11.65	-26.97	6.65
Machining Centers	-21.23	7.97	-38.15	-23.01	-25.33	-23.79
Station Type Machines	25.00	-23.42	-66.67	-62.10	-42.50	-29.50
Other Metal Cutting	17.05	32.76	-33.33	9.44	-30.06	-10.06
Punching & Shearing Machines	50.85	225.58	-56.16	-37.38	-50.57	-35.39
Bending & Forming Machines	-19.67	-5.37	-23.04	11.70	-5.46	19.00
Presses	-48.58	-0.42	63.00	105.99	-31.60	130.89
Forging Machines	8.51	135.53	-50.96	7.10	-48.86	-32.18
Other Metal Forming	20.43	-23.93	35.12	10.63	5.31	27.53
TOTAL	-31.70	17.26	-3.41	5.15	7.28	-4.02

U.S. EXPORTS
Metal Cutting Machine Tools - March 91

RELEASED: June 5, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	37	2825	17	1398
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	20	2824	5	649
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	2	220	0	0
100035	Horizontal machining centers, ATC	11	5548	5	3063
100045	Machining centers, n.e.c.	33	4538	11	2467
200010	Unit construction mach. (single station transfer), NC	2	474	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	1955	1	1090
300010	Multi-station transfer machines, NC	7	12459	2	2661
300090	Multi-station transfer machines, non-NC	6	11869	0	0
8458110010	Horizontal lathes, multiple spindle, NC	5	1175	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	53	4401	24	2316
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	13	2301	3	653
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	6	974	2	451
190030	Horizontal engine or toolroom lathes, non-NC	13	177	6	114
190050	Automatic bar and/or chucking mach., single spindle, non-NC	0	0	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	11	648	2	262
190090	Horizontal lathes, n.e.c., non-NC	58	1067	10	144
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	8	613	6	371
991050	Vertical turret lathes, non-NC	18	285	8	136
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	17	826	8	258
8459100000	Way-type unit head machines	1	38	0	0
210080	Other drilling machines, NC	55	4523	18	1105
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	4	25	2	9
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	12	574	6	240
290090	Drilling machines, n.e.c., non-NC	203	2037	72	1376
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	2580	0	0
310070	Boring-milling machines, n.e.c., NC	8	606	5	456
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	4	137	1	4
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	2	58	0	0
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	5	340	1	31
510080	Milling machines, knee type, NC	4	648	3	168
590030	Milling machines, knee type, non-NC	35	1422	16	531
610080	Milling machines, excluding knee type, n.e.c., NC	4	587	1	80
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	61	1515	36	851
700020	Threading or tapping machines, n.e.c., NC	28	850	3	238
700080	Threading or tapping machines, n.e.c., non-NC	65	2162	28	865
8460110080	Flat surface grinding machines, NC	5	844	0	0
190010	Flat surface grinding mach., recip.-table type, non-NC	15	181	3	38
190050	Flat surface grinding machines, n.e.c., non-NC	5	592	1	148
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	31	11671	11	3748
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	3	972	0	0
290030	Grinding machines, internal cylindrical, non-NC	3	86	2	63
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	88	3543	33	1379
310080	Sharpening machines (tool & cutter grinding), NC	8	690	5	612
390050	Sharpening machines (tool or cutter grinding), non-NC	299	2124	57	388
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	64	919	33	427
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	1	24	1	24
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	269	2933	129	1561
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	57	941	3	37
200010	Shaping or slotting machines, NC	2	208	0	0
200090	Shaping or slotting machines, non-NC	12	318	2	179
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	19	749	14	511
401050	Gear hobbers	25	1839	8	421
401070	Gear shapers	1	409	1	409
401090	Gear cutting machines, n.e.c.	18	10744	6	3061
405060	Gear grinding or finishing machines	9	1727	1	8
500050	Sawing or cutting-off machines, NC	20	960	11	410
500090	Sawing or cutting-off machines, non-NC	414	4954	196	1833
9000000001	Metal cutting machine tools, n.e.c.	169	7475	48	1847
9800000001	Used or rebuilt machine tools	1494	12882	762	4376
9900000001	Machine tools valued at less than $3,025	10392	6066	3627	2231
	Cutting Total			5256	45695
	Y-T-D Cutting Total	14243	147428		
	NC Y-T-D Cutting Total*	397	64351		

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U.S. EXPORTS

Metal Cutting Machine Tools - March 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	121
8457100015	0	0	0	0	1	133	0	0	3	394
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	398
100045	0	0	0	0	0	0	2	114	1	93
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	49	0	0	1	82	0	0	3	357
110050	1	399	0	0	0	0	0	0	1	134
110090	0	0	0	0	0	0	0	0	2	451
190030	0	0	0	0	0	0	0	0	1	18
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	104
190090	1	8	0	0	0	0	0	0	1	5
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	1	10
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	6	369
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	9
290070	0	0	0	0	0	0	0	0	2	7
290090	0	0	0	0	0	0	0	0	9	46
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	266
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	4	101
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	19
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	79	0	0	6	176
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	11
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	4	187	1	7
310080	0	0	0	0	0	0	4	548	0	0
390050	0	0	0	0	0	0	0	0	8	67
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	4	41	0	0	2	18
900060	0	0	0	0	0	0	0	0	0	0
900080	3	36	0	0	0	0	0	0	21	229
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	1	409	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	1	8	0	0	0	0	0	0	0	0
500050	0	0	0	0	3	49	0	0	7	327
500090	0	0	0	0	0	0	0	0	25	159
9000000001	0	0	0	0	0	0	0	0	18	161
9800000001	4	74	0	0	0	0	4	64	65	769
9900000001	79	65	15	9	25	46	42	63	351	343
Month Tot	90	639	16	419	35	429	56	976	548	5169
Y-T-D Tot	241	1745	27	447	431	3061	115	2475	1450	15257
NC YTD Tot*	3	954	0	0	18	2033	14	1422	56	8109

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U.S. EXPORTS
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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	228	0	0	11	822	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	1	246	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	1050	0	0	1	1611	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	2	224	1	100	1	130	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	35	10	652	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	3	218	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	4	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	80	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	1492	1	427	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	13	377	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	6	39	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	67	7	76	7	112	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	4	80	11	125	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	150	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	11	324	0	0	0	0	2	177	0	0
401050	0	0	0	0	8	421	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	1	715	0	0	1	86	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	21	102	0	0	0	0
9000000001	4	909	0	0	1	8	3	21	0	0
9800000001	61	400	7	41	110	470	0	0	0	0
9900000001	0	0	201	97	91	70	37	20	11	7
Month Tot	98	4302	225	726	283	6535	44	648	11	7
Y-T-D Tot	145	7662	453	4644	1137	25548	224	3962	14	56
NC YTD Tot*	15	3320	15	2263	62	17863	3	1187	1	31

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	38	0	0	0	0	1	93
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	6	2085
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	1090	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	3	220	0	0	2	259
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	3	84	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	1	157	0	0	0	0
190090	0	0	2	8	0	0	0	0	2	18
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	151
991050	0	0	0	0	0	0	0	0	7	126
995090	0	0	0	0	0	0	0	0	4	89
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	16
290090	4	17	0	0	0	0	0	0	3	29
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	2	105
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	4
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	31
510080	0	0	0	0	0	0	0	0	3	168
590030	0	0	0	0	0	0	0	0	1	20
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	37	24	710	0	0	7	42
700020	0	0	0	0	1	215	0	0	2	23
700080	0	0	0	0	0	0	0	0	6	20
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	12
190050	0	0	0	0	1	148	0	0	0	0
210080	0	0	0	0	5	1010	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	2	63
290050	0	0	0	0	2	193	0	0	1	30
310080	0	0	0	0	1	64	0	0	0	0
390050	0	0	17	108	0	0	2	13	7	44
400060	0	0	0	0	0	0	0	0	0	0
400080	1	3	2	17	1	45	0	0	0	0
900060	0	0	0	0	0	0	0	0	1	24
900080	0	0	28	327	16	192	0	0	2	24
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	11
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	11
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	4	2259	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	3	30	360	3	35	1	11	8	100
9000000001	0	0	2	40	1	6	0	0	2	79
9800000001	2	6	4	128	5	141	0	0	248	994
9900000001	65	24	538	266	232	89	2	3	666	322
Month Tot	73	54	633	4763	296	3226	5	28	992	5001
Y-T-D Tot	361	5495	1789	12600	1035	8406	9	71	2263	11119
NC YTD Tot*	5	2906	42	3093	14	3243	0	0	39	4580

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U.S. EXPORTS
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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	916
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	18	80	0	0	0	0	0	0	3	1045
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	29	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	4	160	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	8	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	17	0	0	1	5	2	25	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	63	1	6	1	6	9	89	1	15
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	12	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	39	169	8	55	0	0	0	0	0	0
9000000001	0	0	1	7	0	0	0	0	0	0
9800000001	9	12	143	477	0	0	10	154	0	0
9900000001	43	31	55	38	11	17	90	53	58	67
Month Tot	113	372	209	595	18	217	112	329	63	2044
Y-T-D Tot	218	2195	333	1631	59	466	424	2001	584	2747
NC YTD Tot*	4	889	2	183	1	27	6	1330	3	973

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - March 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	97	0	0	0	0	0	0
8457100015	0	0	1	122-	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	1503
100045	0	0	0	0	0	0	2	175	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	8	644	0	0	1	98	1	152
110050	0	0	0	0	0	0	1	120	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	4
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	3	97
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	220
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	2	84	2	85
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	49
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	5	0	0	0	0	33	150
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	2	85
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	10	380
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	43
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	13	584	2	7
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	15
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	819
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	29	0	0	0	0	0	0	7	395
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	8	0	0	0	0	15	101
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	10	100	0	0	11	124	10	144
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	14
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	29
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	1	34	0	0	0	0	0	0
500090	0	0	44	572	0	0	1	23	15	243
9000000001	0	0	11	259	0	0	2	33	3	324
9800000001	2	5	10	71	13	39	44	227	21	305
9900000001	2	3	639	169	0	0	58	37	316	391
Month Tot	5	36	727	2080	13	39	135	1504	456	5556
Y-T-D Tot	46	452	1053	6507	21	11435	260	2920	1551	14528
NC YTD Tot*	2	50	40	3782	4	324	7	608	41	5184

*Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 91

RELEASED: June 5, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	103	3086	21	1181
8462100030	Headers and upsetters, including cold headers	9	4079	3	939
100050	Forging or die stamping machines, and hammers, n.e.c.	42	7937	18	3185
210080	Bending, folding, straight. or flat. mach., incl presses, NC	62	8596	29	3667
290030	Press brakes, non-NC	29	573	11	214
290040	Bending rolls, non-NC	18	682	9	147
290050	Bending, folding, straight., or flat., n.e.c., non-NC	228	8585	70	3205
310080	Shearing machines, NC	18	1550	6	351
390050	Shearing machines, non-NC	97	2989	45	1019
410080	Punching or notching mach., incl. comb. punch & shear, NC	26	5449	5	2662
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	131	4566	29	553
910060	Hydraulic presses, NC	6	370	2	251
910090	Hydraulic presses, non-NC	169	3455	46	677
990030	Presses, n.e.c., NC	28	2503	11	999
990040	Presses, mechanical, non-NC	67	4652	28	1374
990060	Presses, n.e.c., non-NC	247	7020	41	1547
8463100080	Draw benches for bars, tubes, profiles, wire or the like	52	2238	6	110
200080	Thread rolling machines	15	359	9	243
300080	Machines for working wire	178	5685	64	1178
900080	Metal forming machine tools, n.e.c.	261	12388	93	6832
9800000002	Used or rebuilt machine tools	767	12836	260	4788
9900000002	Machine tools valued at less than $3,025	3929	3192	1269	965

Forming Total			2075	36086
Y-T-D Forming Total	6482	102793		
NC Y-T-D Forming Total	140	18468		
Cutting and Forming Totals:				
Monthly Total			7331	81781
Y-T-D Total	20725	250221		
NC Y-T-D Total*	537	82820		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	165810	0	54976
2000000000	Parts for working rubber or plastics - heading 8477	0	68007	0	22701
2710003070	Quenching or cutting oils	0	1395	0	510
8428900010	Industrial robots for lifting, handling, loading or unload	208	1239	80	233
8431390090	Parts industrial robots, handling and loading - heading 8428	0	22842	0	8205
8456100000	Laser, light or photon beam for working any material	174	9567	63	3712
200000	Ultrasonic process for working any material	16	347	5	103
8477106010	Injection molding mach., for rubber or oth. thermosetting	44	2995	11	868
106070	Injection molding machines, for thermoplastics	86	9342	28	2858
200005	Extruders; rubber or other thermosetting mat., single screw	27	1933	10	466
200015	Extruders; rubber or thermosetting, other incl. multi. screw	31	3004	3	158
200030	Extruders; thermoplastics, single screw	117	4219	71	2858
200060	Extruders; thermoplastics, other incl. multi. screw	34	5400	13	1820
300000	Blow molding machines	204	9498	14	2312
400000	Vacuum-molding and other thermoforming machines	310	1339	199	406
510010	Machines for molding or retreading pneumatic tires	1011	3281	828	1939
510090	Machines for molding or otherwise forming inner tubes	151	5126	34	2307
590000	Machines for molding or otherwise forming n.e.c.	364	3637	128	1498
800000	Machines for working rubber or plastics n.e.c.	1285	20541	367	4535
8479899040	Industrial robots, n.e.c.	1319	16049	525	7268
908040	Industrial robot parts	0	9110	0	4915
8537100030	Numerical controls for controlling machine tools	414	5932	153	2085
9024100000	Machines and appliances for testing metals	0	15157	0	5432
9031100000	Machines for balancing mechanical parts	0	6016	0	1565
300000	Profile projectors	0	1486	0	894
9032810040	Industrial process control instr., hydraulic or pneumatic	251498	11616	94325	4471

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	758	1	267
8462100030	0	0	0	0	0	0	0	0	1	509
100050	1	70	0	0	0	0	0	0	2	1747
210080	0	0	0	0	0	0	2	442	9	1859
290030	0	0	0	0	0	0	0	0	2	14
290040	0	0	0	0	0	0	0	0	4	55
290050	5	102	0	0	0	0	0	0	26	364
310080	0	0	0	0	0	0	0	0	1	102
390050	0	0	0	0	0	0	0	0	7	165
410080	0	0	0	0	0	0	0	0	1	254
490050	0	0	0	0	0	0	1	13	4	40
910060	0	0	0	0	0	0	0	0	1	185
910090	0	0	0	0	0	0	0	0	14	166
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	250	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	2	11
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	12	3	115
900080	1	18	0	0	1	9	0	0	8	85
9800000002	0	0	0	0	0	0	0	0	39	357
9900000002	7	6	0	0	41	18	0	0	133	131
Month Tot	15	446	0	0	42	27	5	1225	258	6426
Y-T-D Tot	63	793	3	84	136	153	59	2230	709	15103
NC YTD Tot	0	0	0	0	0	0	4	552	24	4040
C&F Month	105	1085	16	419	77	456	61	2201	806	11595
C&F Y-T-D	304	2538	30	531	567	3214	174	4705	2159	30360
C&F NC YTD*	3	954	0	0	18	2033	18	1974	80	12148

Other Manufacturing Technology

1000000000	0	1017	0	538	0	926	0	1198	0	8842
2000000000	0	156	0	1225	0	531	0	320	0	7724
2710003070	0	12	0	0	0	48	0	0	0	124
8428900010	0	0	0	0	0	0	0	0	9	35
8431390090	0	198	0	0	0	710	0	24	0	1146
8456100000	1	16	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	31
106070	0	0	0	0	0	0	1	236	6	703
200005	0	0	0	0	0	0	0	0	1	101
200015	0	0	0	0	0	0	0	0	3	158
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	1	152
300000	0	0	0	0	1	1431	2	565	1	24
400000	0	0	0	0	0	0	1	3	1	31
510010	400	57	0	0	12	295	10	243	3	86
510090	3	41	11	275	0	0	0	0	0	0
590000	1	7	0	0	0	0	0	0	15	288
800000	0	0	0	0	0	0	2	5	84	1708
8479899040	6	34	0	0	0	0	0	0	157	1885
908040	0	0	0	0	0	22	0	0	0	530
8537100030	0	0	0	0	0	0	1	13	21	211
9024100000	0	46	0	19	0	41	0	38	0	677
9031100000	0	3	0	0	0	0	0	0	0	471
300000	0	0	0	0	0	0	0	0	0	8
9032810040	277	44	76	4	9452	491	25	85	8574	472

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	12	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	13	1	13	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	2	20	0	0	0	0
410080	0	0	1	163	0	0	0	0	0	0
490050	4	45	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	12	0	0	0	0
990030	0	0	8	500	0	0	0	0	0	0
990040	0	0	0	0	9	379	0	0	0	0
990060	0	0	2	299	0	0	0	0	0	0
8463100080	0	0	0	0	3	76	0	0	0	0
200080	0	0	0	0	6	199	0	0	0	0
300080	1	14	5	35	6	191	0	0	0	0
900080	0	0	0	0	5	110	3	30	1	50
9800000002	0	0	2	10	6	104	0	0	0	0
9900000002	23	19	20	18	109	84	18	7	0	0
Month Tot	28	78	39	1037	150	1200	21	37	1	50
Y-T-D Tot	45	3849	197	2226	568	10160	40	529	31	409
NC YTD Tot	3	948	9	663	16	1475	1	140	0	0
C&F Month	126	4379	264	1764	433	7735	65	685	12	57
C&F Y-T-D	190	11511	650	6870	1705	35708	264	4491	45	465
C&F NC YTD*	18	4268	24	2926	78	19339	4	1327	1	31
Other Manufacturing Technology										
1000000000	0	700	0	1802	0	5822	0	323	0	4
2000000000	0	212	0	525	0	842	0	213	0	55
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	2	12	56	50	5	50	0	0	0	0
8431390090	0	1102	0	272	0	170	0	10	0	178
8456100000	0	0	0	0	3	222	0	0	0	0
200000	0	0	0	0	0	0	1	15	0	0
8477106010	0	0	3	391	2	90	0	0	0	0
106070	2	163	4	282	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	38	990	12	271	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	4	65	1	91	0	0	0	0	0	0
400000	0	0	0	0	2	14	0	0	0	0
510010	0	0	1	36	1	22	0	0	0	0
510090	1	1650	0	0	0	0	0	0	0	0
590000	0	0	11	163	28	442	0	0	0	0
800000	0	0	1	23	3	30	0	0	0	0
8479899040	0	0	69	542	80	735	0	0	0	0
908040	0	0	0	80	0	213	0	0	0	0
8537100030	1	11	24	320	18	257	0	0	0	0
9024100000	0	0	0	159	0	654	0	0	0	8
9031100000	0	0	0	0	0	181	0	412	0	0
300000	0	0	0	0	0	28	0	0	0	0
9032810040	16	35	3607	222	3899	267	144	23	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	10
8462100030	0	0	0	0	2	430	0	0	0	0
100050	0	0	1	220	2	110	0	0	1	33
210080	1	27	3	119	0	0	0	0	3	231
290030	0	0	0	0	0	0	0	0	6	95
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	6	202	4	101	0	0	8	960
310080	0	0	1	79	0	0	0	0	3	121
390050	0	0	1	12	2	62	0	0	30	705
410080	0	0	1	2010	0	0	0	0	1	131
490050	0	0	0	0	0	0	0	0	8	113
910060	0	0	0	0	0	0	0	0	0	0
910090	1	32	0	0	1	19	0	0	22	316
990030	1	224	2	275	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	8	216	0	0	0	0	28	459
8463100080	1	23	0	0	0	0	0	0	0	0
200080	0	0	0	0	3	43	0	0	0	0
300080	2	14	2	58	0	0	0	0	6	96
900080	1	206	9	166	21	2001	0	0	2	14
9800000002	0	0	47	915	2	1355	0	0	104	1270
9900000002	2	5	143	94	24	26	4	5	275	241
Month Tot	9	531	224	4367	61	4147	4	5	499	4795
Y-T-D Tot	96	2151	512	12927	212	6057	40	638	1513	12647
NC YTD Tot	2	251	13	2960	7	866	0	0	18	1612
C&F Month	82	585	857	9129	357	7374	9	33	1491	9795
C&F Y-T-D	457	7646	2301	25527	1247	14463	49	709	3776	23766
C&F NC YTD*	7	3157	55	6053	21	4109	0	0	57	6192

Other Manufacturing Technology	Italy Units	Italy $000	Japan Units	Japan $000	Korea Units	Korea $000	Malaysia Units	Malaysia $000	Mexico Units	Mexico $000
1000000000	0	2499	0	5577	0	3049	0	289	0	3780
2000000000	0	265	0	768	0	444	0	78	0	1773
2710003070	0	0	0	13	0	0	0	0	0	34
8428900010	0	0	2	16	0	0	0	0	0	0
8431390090	0	4	0	298	0	70	0	0	0	165
8456100000	1	205	24	1905	2	430	0	0	1	30
200000	3	65	1	22	0	0	0	0	0	0
8477106010	0	0	2	129	0	0	0	0	2	136
106070	0	0	0	0	2	90	0	0	3	232
200005	0	0	0	0	0	0	0	0	5	255
200015	0	0	0	0	0	0	0	0	0	0
200030	3	75	2	655	0	0	0	0	4	483
200060	0	0	6	161	0	0	0	0	4	1466
300000	0	0	0	0	0	0	0	0	3	57
400000	0	0	85	44	1	22	0	0	21	246
510010	4	99	0	0	0	0	0	0	4	86
510090	0	0	0	0	0	0	0	0	4	19
590000	8	122	10	174	4	7	0	0	16	133
800000	6	95	5	199	1	15	0	0	92	735
8479899040	2	50	3	40	2	93	0	0	10	1402
908040	0	109	0	1359	0	11	0	3	0	140
8537100030	2	25	5	59	7	89	1	8	3	44
9024100000	0	80	0	1546	0	400	0	0	0	177
9031100000	0	7	0	42	0	25	0	0	0	187
300000	0	702	0	16	0	23	0	0	0	0
9032810040	3725	299	3074	241	1937	157	0	0	149	91

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	6	0	0	0	0	0	0	1	5
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	381	0	0	0	0	0	0
210080	0	0	6	439	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	3	105
290040	0	0	0	0	0	0	0	0	0	0
290050	1	4	3	76	0	0	4	60	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	3	55	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	2	151	1	15	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	6	1	15	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	8	360
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	40	6	141	0	0
900080	3	966	2	44	0	0	0	0	1	557
9800000002	1	9	11	167	0	0	0	0	0	0
9900000002	84	22	23	19	0	0	0	0	69	31
Month Tot	94	1069	48	1141	4	191	11	216	82	1058
Y-T-D Tot	158	2521	147	1988	17	351	93	609	103	2264
NC YTD Tot	6	771	8	593	0	0	0	0	2	50
C&F Month	207	1441	257	1737	22	409	123	545	145	3102
C&F Y-T-D	376	4716	480	3619	76	817	517	2610	687	5011
C&F NC YTD*	10	1660	10	776	1	27	6	1330	5	1023

Other Manufacturing Technology

1000000000	0	1771	0	954	0	316	0	942	0	664
2000000000	0	205	0	149	0	747	0	445	0	802
2710003070	0	0	0	4	0	0	0	0	0	35
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	70	0	25	0	10	0	0	0	0
8456100000	0	0	2	56	0	0	1	67	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	91	0	0	0	0	0	0
106070	0	0	0	0	0	0	2	321	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	1	14	0	0	0	0
510010	318	71	0	0	7	170	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	1	8	1	10	3	30	1	18	0	0
800000	0	0	0	0	0	0	0	0	4	16
8479899040	33	199	0	0	0	0	14	326	3	414
908040	0	3	0	2132	0	0	0	62	0	0
8537100030	0	0	11	156	1	15	0	0	0	0
9024100000	0	16	0	158	0	162	0	171	0	319
9031100000	0	0	0	127	0	0	0	0	0	0
300000	0	0	0	45	0	0	0	0	0	46
9032810040	6621	414	3183	228	6571	334	0	0	370	25

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	26	0	0	0	0	13	97
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	7	521	0	0	0	0	2	105
210080	2	444	3	105	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	5	92
290050	0	0	3	408	0	0	0	0	8	901
310080	1	49	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	105	0	0	0	0	0	0
490050	1	15	2	88	0	0	0	0	6	73
910060	0	0	0	0	0	0	0	0	1	66
910090	0	0	0	0	0	0	0	0	4	110
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	11	635	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	2	322
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	23	365	0	0	0	0	7	98
900080	3	182	6	49	0	0	1	33	25	2312
9800000002	0	0	13	79	0	0	3	131	32	390
9900000002	0	0	108	84	0	0	17	15	169	140
Month Tot	7	691	178	2465	0	0	21	178	274	4707
Y-T-D Tot	54	1608	467	6631	0	0	35	351	1184	16513
NC YTD Tot	4	670	9	532	0	0	0	0	14	2345
C&F Month	12	727	905	4545	13	39	156	1683	730	10262
C&F Y-T-D	100	2061	1520	13139	21	11435	295	3271	2735	31041
C&F NC YTD*	6	719	49	4314	4	324	7	608	55	7529

Other Manufacturing Technology

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	355	0	4308	0	7	0	741	0	8548
2000000000	0	222	0	1215	0	0	0	411	0	3373
2710003070	0	6	0	0	0	0	0	13	0	221
8428900010	0	0	0	0	0	0	0	0	6	70
8431390090	0	12	0	253	0	0	0	1543	0	1945
8456100000	0	0	5	218	0	0	16	360	7	203
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	2	89	0	0	1	48	5	693
200005	0	0	0	0	0	0	4	110	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	4	105	0	0	0	0	8	279
200060	0	0	0	0	0	0	0	0	2	41
300000	0	0	0	0	0	0	0	0	2	79
400000	0	0	85	16	0	0	0	0	2	15
510010	0	0	2	61	0	0	24	33	42	682
510090	0	0	1	4	0	0	0	0	14	318
590000	0	0	25	37	0	0	0	0	4	60
800000	0	0	41	1175	0	0	0	0	128	534
8479899040	0	0	92	1143	0	0	0	0	54	405
908040	0	0	0	72	0	0	0	53	0	126
8537100030	2	19	38	606	0	0	0	0	18	253
9024100000	0	4	0	221	0	103	0	0	0	433
9031100000	0	0	0	105	0	0	0	0	0	6
300000	0	0	0	23	0	0	0	0	0	3
9032810040	35200	106	2610	482	0	0	173	34	4642	417

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Cutting and Metal Forming Machine Tool Totals
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	19	914	4	36	23	950
Finland	0	0	6	323	6	323
Greece	0	0	4	697	4	697
Hungary	4	95	0	0	4	95
Iceland	0	0	6	5	6	5
Ireland	2	80	9	1838	11	1918
Luxembourg	0	0	0	0	0	0
Norway	4	64	0	0	4	64
Poland	0	0	1	220	1	220
Portugal	0	0	7	10	7	10
Romania	0	0	0	0	0	0
Sweden	41	1261	11	33	52	1294
Turkey	3	819	0	0	3	819
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1688	14433	575	9898	2263	24331
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	2	17	2	17
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	1	3	0	0	1	3
Dominican Rep	0	0	4	7	4	7
El Salvador	0	0	0	0	0	0
Guatemala	0	0	0	0	0	0
Haiti	0	0	1	8	1	8
Honduras	10	12	3	32	13	43
Jamaica	0	0	1	9	1	9
Panama	0	0	4	72	4	72
Trinidad	0	0	0	0	0	0
Oth N & C Am.	3	89	6	66	9	155
TOTAL	1554	10274	778	11432	2332	21706
SOUTH AMERICA						
Argentina	0	0	7	29	7	29
Bolivia	0	0	0	0	0	0
Chile	34	641	4	3	38	644
Colombia	7	255	0	0	7	255
Ecuador	17	28	17	22	34	50
Paraguay	0	0	0	0	0	0
Peru	1	14	1	4	2	18
Uruguay	0	0	0	0	0	0
Oth South Am.	1	15	1	13	2	28
TOTAL	251	3434	56	1474	307	4908
OCEANIA						
New Zealand	12	139	4	3	16	142
Oth Oceania	2	3	0	0	2	3
TOTAL	104	781	19	449	123	1230

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	140	720	32	417	172	1137
Iran	2	20	0	0	2	20
Iraq	0	0	0	0	0	0
Israel	7	25	37	116	44	141
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	2	39	2	39
Philippines	3	33	33	42	36	76
Qatar	0	0	0	0	0	0
Saudi Arabia	2	55	22	429	24	484
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	34	3	17	18	51	22
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1552	16506	619	12636	2171	29142
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	9	133	1	46	10	180
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	63	96	0	0	63	96
South Africa	35	38	27	151	62	189
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	107	267	28	197	135	465

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
--Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

RELEASED: June 5, 1991

U.S. IMPORTS - Metal Cutting Machine Tools - March 91

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	160	11598	48	3812
301050	Electro-discharge machines, n.e.c., NC	60	6033	22	1676
301070	Electro-discharge machines, n.e.c., non-NC	137	1091	14	226
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	428	36606	106	9627
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	29	5194	5	1435
100035	Horizontal machining centers, ATC	137	30298	43	10284
100045	Machining centers, n.e.c.	78	7436	13	2503
200010	Unit construction mach. (single station transfer), NC	9	640	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	217	0	0
300010	Multi-station transfer machines, NC	3	1768	1	93
300090	Multi-station transfer machines, non-NC	9	4738	4	1309
8458110010	Horizontal lathes, multiple spindle, NC	61	10901	21	4516
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	478	39116	192	15482
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	99	14409	25	4083
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	15	7245	6	4225
190030	Horizontal engine or toolroom lathes, non-NC	932	8696	181	2122
190050	Automatic bar and/or chucking mach., single spindle, non-NC	119	3099	24	361
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	10	1582	6	1453
190090	Horizontal lathes, n.e.c., non-NC	189	4347	83	2466
911060	Vertical turret lathes, multiple spindle, NC	3	550	0	0
911080	Vertical turret lathes, n.e.c., NC	6	1131	2	382
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	11	2109	4	1650
915070	Vertical lathes, excluding VTL's, n.e.c., NC	13	2804	3	941
991050	Vertical turret lathes, non-NC	43	504	9	142
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	2399	9	512
8459100000	Way-type unit head machines	1	58	0	0
210080	Other drilling machines, NC	99	7971	37	4450
290040	Drilling machines, multiple spindle, non-NC	7	973	1	60
290050	Drilling machines, radial, non-NC	66	692	31	256
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	6	60	1	16
290090	Drilling machines, n.e.c., non-NC	135	3476	35	979
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1065	1	359
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	25	4485	5	1610
310070	Boring-milling machines, n.e.c., NC	10	1434	3	1281
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	19	2505	9	1881
400040	Boring machines, vertical, NC	3	254	0	0
400050	Boring machines, vertical, non-NC	19	469	4	131
400070	Boring machines, n.e.c., NC	11	1207	4	922
400080	Boring machines, n.e.c., non-NC	105	1761	29	490
510080	Milling machines, knee type, NC	178	2153	28	483
590030	Milling machines, knee type, non-NC	491	4716	158	1402
610080	Milling machines, excluding knee type, n.e.c., NC	109	11353	14	2539
690050	Milling machines, profile, dup., or die sinking, non-NC	9	126	5	109
690070	Milling machines, bed type, non-NC	14	445	5	196
690090	Milling machines, n.e.c., non-NC	155	1744	40	242
700020	Threading or tapping machines, n.e.c., NC	49	3419	16	1358
700080	Threading or tapping machines, n.e.c., non-NC	15	551	5	81
8460110080	Flat surface grinding machines, NC	18	1577	5	836
190010	Flat surface grinding mach., recip.-table type, non-NC	121	1896	24	447
190050	Flat surface grinding machines, n.e.c., non-NC	341	3735	121	1060
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	141	22123	45	7250
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	131	2707	55	953
290030	Grinding machines, internal cylindrical, non-NC	58	1375	10	479
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	215	7213	67	2659
310080	Sharpening machines (tool & cutter grinding), NC	36	1629	18	729
390050	Sharpening machines (tool or cutter grinding), non-NC	212	2490	33	449
400060	Honing or lapping machines, NC	14	1428	6	138
400080	Honing or lapping machines, non-NC	40	2257	10	531
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	762	9	280
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	319	11815	137	5011
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	37	5	31
200010	Shaping or slotting machines, NC	1	213	0	0
200090	Shaping or slotting machines, non-NC	10	1383	5	1283
300060	Broaching machines, NC	2	96	1	46
300080	Broaching machines, non-NC	4	435	0	0
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	33	5228	4	373
401040	Gear shapers	20	2267	4	1262
401060	Gear cutting machines, n.e.c.	15	2187	0	0
405050	Gear grinding or finishing for bevel gears	1	49	1	49
405070	Gear grinding or finishing machines, n.e.c.	7	3381	3	1571
500050	Sawing or cutting-off machines, NC	48	6495	8	5599
500090	Sawing or cutting-off machines, non-NC	351	5930	102	1907
9000000001	Metal cutting machine tools, n.e.c.	76	3498	28	754
9800000001	Used or rebuilt machine tools	771	12920	206	4354
9900000001	Machine tools valued at less than $3,025	224813	21415	62453	6941
	Cutting Total			64612	133137
	Y-T-D Cutting Total	232464	381968		
	NC Y-T-D Cutting Total	2369	246034		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	2	412
301070	0	0	1	15	1	66	0	0	1	80
8457100015	0	0	0	0	0	0	3	261	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	340
100045	0	0	0	0	0	0	0	0	3	246
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	184	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	4	1295
110030	0	0	0	0	0	0	3	402	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	3066
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	36
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	127
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	109	0	0
995090	0	0	0	0	1	16	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	10
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	304	0	0	3	41
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	3	460
310070	0	0	0	0	0	0	0	0	2	1260
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	9	1881
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	46	14	263	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	11
690050	0	0	0	0	0	0	2	11	1	8
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	21	0	0	1	9
700020	0	0	0	0	0	0	0	0	1	502
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	123
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	3	0	0	0	0
210080	0	0	0	0	0	0	0	0	10	523
290010	0	0	0	0	0	0	0	0	43	243
290030	0	0	0	0	0	0	0	0	1	364
290050	0	0	0	0	6	16	5	28	24	1082
310080	0	0	0	0	1	10	0	0	11	247
390050	0	0	0	0	2	9	0	0	2	41
400060	0	0	0	0	0	0	0	0	5	99
400080	0	0	0	0	0	0	0	0	1	245
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	5	60	2	6	25	1328
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	3	357
401040	0	0	0	0	0	0	0	0	3	1248
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	262
500050	0	0	0	0	0	0	1	28	1	5463
500090	0	0	0	0	19	314	0	0	9	437
9000000001	0	0	0	0	4	85	1	10	7	375
9800000001	1	223	0	0	18	140	3	42	64	477
9900000001	2	3	0	0	162	115	314	278	2316	334
Month Tot	3	226	1	15	227	1387	349	1438	2565	23034
Y-T-D Tot	12	1028	80	1182	520	4619	592	4577	3360	62160
NC YTD Tot	0	0	4	391	17	286	11	1054	160	35267

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	41	3450	0	0	0	0	0	0
301050	0	0	11	954	0	0	0	0	0	0
301070	0	0	2	7	0	0	0	0	0	0
8457100015	0	0	84	8143	0	0	2	112	0	0
100025	1	744	4	691	0	0	0	0	0	0
100035	0	0	40	9726	1	73	0	0	0	0
100045	2	1229	1	177	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	752	0	0	0	0	0	0	0	0
8458110010	0	0	16	2749	0	0	0	0	0	0
110030	0	0	158	12958	10	532	0	0	0	0
110050	0	0	23	3736	0	0	0	0	0	0
110090	0	0	4	1159	0	0	0	0	0	0
190030	0	0	3	64	6	49	15	197	1	64
190050	0	0	0	0	0	0	0	0	1	103
190070	0	0	4	1074	0	0	0	0	0	0
190090	0	0	14	1907	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	2	382	0	0	0	0	0	0
915050	0	0	4	1650	0	0	0	0	0	0
915070	1	170	0	0	0	0	0	0	0	0
991050	8	34	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	37	4450	0	0	0	0	0	0
290040	0	0	1	60	0	0	0	0	0	0
290050	5	109	0	0	1	15	0	0	0	0
290070	0	0	1	16	0	0	0	0	0	0
290090	0	0	7	486	0	0	0	0	18	70
310010	0	0	1	359	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	3	47	0	0	0	0	0	0	0	0
400070	0	0	4	922	0	0	0	0	0	0
400080	11	146	0	0	0	0	0	0	0	0
510080	0	0	1	225	0	0	0	0	0	0
590030	2	92	4	84	0	0	0	0	115	917
610080	0	0	10	2120	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	2	146	0	0	0	0	0	0
690090	0	0	1	4	0	0	0	0	0	0
700020	0	0	14	831	0	0	0	0	0	0
700080	0	0	5	81	0	0	0	0	0	0
8460110080	1	84	2	459	0	0	0	0	0	0
190010	0	0	3	283	0	0	12	122	0	0
1900[illegible]	1	22	0	0	0	0	0	0	0	0
210[illegible]	0	0	30	3693	0	0	0	0	0	0
29[illegible]	0	0	5	212	0	0	0	0	0	0
29[illegible]30	0	0	0	0	0	0	0	0	0	0
29[illegible]50	0	0	11	1241	1	2	0	0	0	0
31[illegible]080	0	0	1	262	0	0	0	0	0	0
390050	0	0	2	35	0	0	0	0	0	0
400060	0	0	1	38	0	0	0	0	0	0
400080	0	0	7	269	0	0	0	0	0	0
900060	0	0	2	162	0	0	0	0	0	0
900080	3	122	66	2929	0	0	0	0	2	249
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	5	1283	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	5	74	1	34	0	0	0	0	0	0
500090	23	319	25	556	0	0	0	0	0	0
9000000001	2	46	7	117	2	7	0	0	0	0
9800000001	6	213	51	1377	0	0	1	198	0	0
9900000001	1432	318	6108	986	3240	291	8	1	42	68
Month Tot	1507	4523	6826	72546	3261	969	38	630	179	1471
Y-T-D Tot	6234	9033	14948	194210	4965	4330	288	2480	694	6241
NC YTD Tot	21	4022	1428	163198	36	2317	14	867	134	900

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - March 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	4	343	3	19	0	0	0	0
301050	0	0	2	202	7	108	0	0	0	0
301070	0	0	1	9	6	39	0	0	2	10
8457100015	0	0	0	0	0	0	13	966	4	146
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	1	145	0	0	0	0
100045	1	410	0	0	0	0	0	0	6	440
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	1	93	0	0	0	0	0	0
300090	0	0	2	372	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	472	0	0
110030	0	0	5	630	11	601	3	234	2	125
110050	0	0	0	0	0	0	2	347	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	17	207	49	740	90	801
190050	0	0	1	126	5	40	0	0	16	56
190070	0	0	2	378	0	0	0	0	0	0
190090	0	0	1	29	2	25	11	177	54	201
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	2	771	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	3	434	5	62
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	15	68	0	0	8	54
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	1	21	0	0	4	57
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	916	1	234
310070	0	0	0	0	0	0	0	0	1	21
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	83
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	35
510080	0	0	0	0	25	215	2	44	0	0
590030	1	41	0	0	21	123	2	79	13	66
610080	0	0	0	0	3	408	0	0	0	0
690050	0	0	2	90	0	0	0	0	0	0
690070	0	0	0	0	3	50	0	0	0	0
690090	0	0	0	0	14	65	1	23	22	121
700020	0	0	0	0	1	25	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	1	169	0	0	0	0	0	0
190010	0	0	0	0	2	13	0	0	7	29
190050	0	0	2	20	106	761	5	153	6	100
210080	1	344	1	285	0	0	3	2405	0	0
290010	0	0	2	401	5	97	0	0	0	0
290030	0	0	0	0	0	0	0	0	9	115
290050	0	0	1	14	8	176	9	67	2	34
310080	0	0	3	8	0	0	0	0	2	201
390050	0	0	0	0	0	0	21	188	6	177
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	10	1	7
900060	0	0	1	98	0	0	0	0	6	20
900080	0	0	1	62	2	18	7	36	24	199
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	5	31	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	46
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	16
401040	0	0	0	0	0	0	0	0	1	14
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	1	49	0	0
405070	0	0	2	1309	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	9	46	0	0	17	236
9000000001	0	0	0	0	0	0	2	21	3	94
9800000001	0	0	12	441	1	22	25	1068	24	155
9900000001	223	414	124	44	42121	3444	20	23	6341	621
Month Tot	226	1209	171	5124	42389	6732	189	9255	6681	4577
Y-T-D Tot	956	5677	315	16745	178309	30453	527	21631	20664	17601
NC YTD Tot	5	2057	62	9638	256	9007	89	12413	132	4617

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
March 91

RELEASED: June 5, 1991

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	70	11224	16	4562
8462100030	Headers and upsetters, including cold headers	18	3516	6	1099
100050	Forging or die stamping machines, and hammers, n.e.c.	139	9995	45	4855
210080	Bending, folding, straight. or flat. mach., incl presses, NC	124	12232	39	5171
290030	Press brakes, non-NC	62	2223	17	901
290040	Bending rolls, non-NC	26	850	7	115
290050	Bending, folding, straight., or flat., n.e.c., non-NC	307	8176	84	2043
310080	Shearing machines, NC	5	622	2	233
390050	Shearing machines, non-NC	99	3736	55	2250
410080	Punching or notching mach., incl. comb. punch & shear, NC	40	5967	9	1636
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	71	2346	23	1215
910060	Hydraulic presses, NC	7	4819	3	392
910090	Hydraulic presses, non-NC	430	6974	123	2298
990030	Presses, n.e.c., NC	0	0	0	0
990035	Mechanical transfer presses, non-NC	2	13699	1	3603
990045	Mechanical presses, n.e.c., non-NC	27	1309	6	185
990060	Presses, n.e.c., non-NC	86	7466	30	2518
8463100080	Draw benches for bars, tubes, profiles, wire or the like	60	4695	4	276
200080	Thread rolling machines	16	869	8	342
300080	Machines for working wire	299	15458	97	3986
900080	Metal forming machine tools, n.e.c.	348	9330	152	2840
9800000002	Used or rebuilt machine tools	1844	8184	133	2696
9900000002	Machine tools valued at less than $3,025	2678	1175	1035	639
	Forming Total			1895	43855
	Y-T-D Forming Total	6758	134864		
	NC Y-T-D Forming Total	176	23640		
	Cutting and Forming Totals:				
	Monthly Total			66507	176992
	Y-T-D Total	239222	516832		
	NC Y-T-D Total	2545	269674		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	136684	0	47719
2000000000	Parts for working rubber or plastics - heading 8477	0	86005	0	31233
2710003070	Quenching or cutting oils	0	105	0	28
8428900010	Industrial robots for lifting, handling, loading or unload	452	7223	218	2820
8431390080	Parts industrial robots, handling and loading - heading 8428	0	24177	0	5899
8456101010	Laser, light or photon beam for working metal, NC	32	6861	12	2275
101020	Laser, light or photon beam for working metal, non-NC	21	4516	11	1101
105000	Laser, light or photon beam for other materials	19	2171	6	342
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	12	93	6	55
205000	Ultrasonic processes for working other materials	26	154	2	12
8477103000	Injection molding mach., for manufacturing shoes	3	353	1	56
106010	Injection molding mach., for rubber or oth. thermosetting	238	26788	96	8229
106050	Injection molding mach., for thermoplastics	498	50644	178	19262
200005	Extruders; rubber or other thermosetting mat., single screw	4	1308	1	454
200015	Extruders; rubber or thermosetting, other incl. multi. screw	57	7333	7	388
200035	Extruders; thermoplastics, single screw, less than 6.4cm	14	292	6	83
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	31	4278	1	275
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	5	554	2	133
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	34	2764	7	358
300000	Blow molding machines	36	10559	9	1401
400000	Vacuum-molding and other thermoforming machines	45	3831	42	2675
510010	Machines for molding or retreading pneumatic tires	131	8140	27	4068
510090	Machines for molding or otherwise forming inner tubes	28	1129	6	36
590000	Machines for molding or otherwise forming n.e.c.	140	11784	46	5094
800000	Machines for working rubber or plastics n.e.c.	531	52459	192	19113
8479899040	Industrial robots, n.e.c.	1015	33536	499	20322
908040	Industrial robot parts	0	9169	0	2900
8537100030	Numerical controls for controlling machine tools	1872	9151	1005	3906
9024100000	Machines and appliances for testing metals	0	2988	0	898
9031100000	Machines for balancing mechanical parts	0	534	0	64
300000	Profile projectors	0	1730	0	477
9032810020	Industrial process control instr., hydraulic	36744	788	12589	204
810060	Industrial process control instr., pneumatic	57250	1613	27260	773

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	7	495	1	71	0	0
8462100030	0	0	0	0	2	30	0	0	0	0
100050	0	0	0	0	12	528	1	36	7	519
210080	1	561	0	0	8	975	0	0	0	0
290030	6	528	0	0	9	334	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	88
290050	0	0	0	0	21	225	0	0	2	49
310080	0	0	0	0	0	0	0	0	1	125
390050	6	148	0	0	10	387	0	0	2	46
410080	0	0	0	0	0	0	0	0	3	625
490050	0	0	0	0	3	449	0	0	12	558
910060	0	0	0	0	0	0	0	0	2	356
910090	0	0	0	0	5	885	0	0	1	1
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	13	451	0	0	4	1128
8463100080	0	0	0	0	0	0	0	0	4	276
200080	0	0	0	0	0	0	0	0	0	0
300080	3	158	0	0	0	0	0	0	24	2293
900080	0	0	0	0	6	53	0	0	75	818
9800000002	12	96	1	500	33	247	1	17	3	212
9900000002	0	0	0	0	129	146	18	38	105	62
Month Tot	28	1492	1	500	258	5205	21	163	247	7157
Y-T-D Tot	63	2771	4	539	576	12794	42	709	564	26322
NC YTD Tot	1	561	0	0	16	2189	2	44	22	7020
C&F Month	31	1718	2	515	485	6593	370	1601	2812	30191
C&F Y-T-D	75	3799	84	1721	1096	17413	634	5286	3924	88481
C&F NC YTD	1	561	4	391	33	2475	13	1098	182	42287

Other Manufacturing Technology

1000000000	0	169	0	49	0	5187	0	672	0	13407
2000000000	0	35	0	17	0	4807	0	3362	0	14510
2710003070	0	0	0	0	0	16	0	0	0	5
8428900010	0	0	0	0	10	102	2	145	14	21
8431390080	0	0	0	12	0	1600	0	84	0	1354
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	8	794
105000	0	0	0	0	5	339	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	0	0	3	481	33	1240
106050	0	0	0	0	34	5077	0	0	69	4304
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	1	91	3	171
200035	0	0	0	0	6	83	0	0	0	0
200045	0	0	0	0	1	275	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	1	21	0	0	6	337
300000	0	0	0	0	0	0	1	21	1	3
400000	0	0	0	0	2	82	0	0	22	555
510010	0	0	0	0	14	1095	3	328	2	2311
510090	0	0	0	0	2	3	1	8	0	0
590000	0	0	0	0	6	70	0	0	4	602
800000	3	47	0	0	44	849	3	374	52	5866
8479899040	0	0	0	0	1	8	0	0	9	1135
908040	0	0	0	0	0	22	0	0	0	1412
8537100030	0	0	0	0	0	0	0	0	32	97
9024100000	0	0	0	0	0	96	0	0	0	102
9031100000	0	0	0	0	0	9	0	3	0	30
300000	0	0	0	0	0	0	0	0	0	75
9032810020	0	0	0	0	6	18	0	0	0	0
810060	0	0	0	0	10319	32	10	4	7536	377

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	22	6	3973	0	0	0	0	0	0
8462100030	4	1069	0	0	0	0	0	0	0	0
100050	0	0	16	3356	3	154	0	0	0	0
210080	0	0	23	1834	0	0	0	0	0	0
290030	0	0	2	39	0	0	0	0	0	0
290040	0	0	4	20	0	0	0	0	0	0
290050	32	217	9	860	0	0	0	0	1	15
310080	1	109	0	0	0	0	0	0	0	0
390050	10	1272	4	252	0	0	0	0	0	0
410080	0	0	4	354	0	0	0	0	0	0
490050	0	0	4	116	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	3	28	13	795	5	100	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	3603	0	0	0	0	0	0
990045	0	0	4	150	0	0	0	0	0	0
990060	0	0	9	736	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	7	336	0	0	0	0	0	0
300080	25	1078	40	397	0	0	0	0	0	0
900080	1	9	10	648	0	0	0	0	0	0
9800000002	2	26	5	1290	0	0	0	0	0	0
9900000002	46	11	221	71	0	0	0	0	73	85
Month Tot	126	3841	382	18828	8	254	0	0	74	100
Y-T-D Tot	267	10203	1204	59300	9	283	1	300	163	1016
NC YTD Tot	5	645	107	10099	0	0	0	0	0	0
C&F Month	1633	8364	7208	91375	3269	1222	38	630	253	1571
C&F Y-T-D	6501	19237	16152	253510	4974	4613	289	2780	857	7256
C&F NC YTD	26	4667	1535	173298	36	2317	14	867	134	900
Other Manufacturing Technology										
1000000000	0	1972	0	12669	0	420	0	512	0	115
2000000000	0	527	0	4029	0	490	0	76	0	36
2710003070	0	0	0	5	0	0	0	0	0	0
8428900010	1	14	190	2462	0	0	1	76	0	0
8431390080	0	83	0	683	0	0	0	28	0	25
8456101010	0	0	10	2039	0	0	0	0	0	0
101020	0	0	1	292	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	2	12	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	1	45	39	4439	1	95	4	201	0	0
106050	1	1001	55	7173	0	0	0	0	0	0
200005	0	0	1	454	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	2	986	1	305	0	0	0	0	0	0
400000	1	2	11	1938	0	0	0	0	0	0
510010	0	0	8	334	0	0	0	0	0	0
510090	0	0	1	2	0	0	0	0	0	0
590000	4	268	8	1923	0	0	0	0	0	0
800000	6	910	50	8329	0	0	0	0	0	0
8479899040	0	0	325	18094	3	36	0	0	0	0
908040	0	26	0	856	0	0	0	0	0	0
8537100030	1	12	947	3779	0	0	0	0	0	0
9024100000	0	91	0	246	0	0	0	0	0	0
9031100000	0	12	0	10	0	0	0	0	0	0
300000	0	0	0	257	0	0	0	0	0	0
9032810020	0	0	771	47	1800	13	0	0	0	0
810060	0	0	80	155	8500	25	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	4	28	0	0	2	233
210080	5	1542	0	0	0	0	0	0	2	258
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	6	0	0
290050	7	126	4	100	2	13	3	396	3	43
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	23	145	0	0
410080	0	0	0	0	0	0	0	0	2	657
490050	3	24	0	0	0	0	0	0	1	68
910060	0	0	0	0	0	0	0	0	1	36
910090	0	0	4	463	91	25	0	0	1	1
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	2	35
990060	1	12	0	0	2	148	0	0	1	43
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	1	6	0	0	0	0
300080	0	0	2	11	3	49	0	0	0	0
900080	0	0	44	708	3	43	12	550	1	10
9800000002	3	1	51	74	0	0	8	205	14	27
9900000002	0	0	39	37	354	156	1	3	49	30
Month Tot	19	1706	144	1393	460	468	48	1304	79	1442
Y-T-D Tot	58	5023	333	5807	1739	2236	1440	4260	295	3300
NC YTD Tot	5	1542	5	112	0	0	1	186	12	1242
C&F Month	245	2915	315	6517	42849	7201	237	10559	6760	6019
C&F Y-T-D	1014	10700	648	22553	180048	32689	1967	25892	20959	20901
C&F NC YTD	10	3599	67	9750	256	9007	90	12599	144	5859

Other Manufacturing Technology

Other Manufacturing Technology	Sweden Units	Sweden $000	Switzerland Units	Switzerland $000	Taiwan Units	Taiwan $000	U.K. Units	U.K. $000	All Other Units	All Other $000
1000000000	0	517	0	3584	0	1545	0	4198	0	2703
2000000000	0	44	0	1252	0	473	0	424	0	1153
2710003070	0	0	0	0	0	0	0	2	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390080	0	335	0	118	0	84	0	367	0	1127
8456101010	0	0	2	236	0	0	0	0	0	0
101020	0	0	0	0	0	0	2	15	0	0
105000	0	0	0	0	0	0	1	3	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	6	55	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	1	56	0	0	0	0
106010	0	0	10	1498	4	185	0	0	1	45
106050	0	0	4	667	1	10	0	0	14	1030
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	3	126	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	2	133	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	1	27	3	60	0	0
400000	0	0	0	0	0	0	6	99	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	1	19	0	0	1	4
590000	0	0	0	0	7	118	6	1820	11	294
800000	0	0	6	278	3	92	14	1683	11	687
8479899040	4	177	43	685	0	0	2	66	112	122
908040	0	64	0	139	0	0	0	182	0	199
8537100030	0	0	0	0	25	18	0	0	0	0
9024100000	0	3	0	64	0	0	0	265	0	32
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	123	0	22
9032810020	0	0	742	5	0	0	0	0	9270	121
810060	620	144	0	0	153	11	5	2	37	23

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	94	276	11	263	105	539
Bulgaria	0	0	0	0	0	0
Czechoslovakia	15	183	0	0	15	183
Denmark	32	194	8	153	40	347
Finland	3	35	9	660	12	696
Hungary	3	141	0	0	3	141
Ireland	28	61	0	0	28	61
Luxembourg	0	0	0	0	0	0
Netherlands	4	77	0	0	4	77
Norway	137	301	0	0	137	301
Poland	12	343	1	1	13	345
Portugal	0	0	0	0	0	0
Romania	0	0	0	0	0	0
USSR	6	147	0	0	6	147
Yugoslavia	24	163	1	124	25	287
Oth Europe	3	35	0	0	3	35
TOTAL	5550	48238	737	18360	6287	66598
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	0	0	0	0
Oth N & C Am.	0	0	0	0	0	0
TOTAL	227	1387	258	5205	485	6593
SOUTH AMERICA						
Argentina	0	0	1	36	1	36
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	1	15	2	536	3	551
OCEANIA						
Australia	32	515	15	32	47	547
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	32	515	15	32	47	547

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	6275	1506	1	3	6276	1508
Hong Kong	1	3	2	119	3	123
India	0	0	0	0	0	0
Indonesia	0	0	25	2	25	2
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	6	440	3	43	9	483
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	4	146	2	5	6	150
Oth Asia	0	0	0	0	0	0
TOTAL	58800	82972	883	19722	59683	102695
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	2	9	0	0	2	9
Oth Africa	0	0	0	0	0	0
TOTAL	2	9	0	0	2	9

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91 - March 91

RELEASED: June 5, 1991

		TOTAL YTD	
		UNITS	$000
8456300000	Electro-discharge machines	37	2825
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	20	2824
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	2	220
100035	Horizontal machining centers, ATC	11	5548
100045	Machining centers, n.e.c.	33	4538
200010	Unit construction mach. (single station transfer), NC	2	474
200090	Unit construction mach. (single station transfer), non-NC	4	1955
300010	Multi-station transfer machines, NC	7	12459
300090	Multi-station transfer machines, non-NC	6	11869
8458110010	Horizontal lathes, multiple spindle, NC	5	1175
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	53	4401
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	13	2301
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	6	974
190030	Horizontal engine or toolroom lathes, non-NC	13	177
190050	Automatic bar and/or chucking mach., single spindle, non-NC	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	11	648
190090	Horizontal lathes, n.e.c., non-NC	58	1067
911060	Vertical turret lathes, multiple spindle, NC	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	8	613
991050	Vertical turret lathes, non-NC	18	285
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	17	826
8459100000	Way-type unit head machines	1	38
210080	Other drilling machines, NC	55	4523
290040	Drilling machines, multiple spindle, non-NC	0	0
290050	Drilling machines, radial, non-NC	4	25
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	12	574
290090	Drilling machines, n.e.c., non-NC	203	2037
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	2580
310070	Boring-milling machines, n.e.c., NC	8	606
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	4	137
400040	Boring machines, vertical, NC	0	0
400050	Boring machines, vertical, non-NC	2	58
400070	Boring machines, n.e.c., NC	0	0
400080	Boring machines, n.e.c., non-NC	5	340
510080	Milling machines, knee type, NC	4	648
590030	Milling machines, knee type, non-NC	35	1422
610080	Milling machines, excluding knee type, n.e.c., NC	4	587
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0
690070	Milling machines, bed type, non-NC	0	0
690090	Milling machines, n.e.c., non-NC	61	1515
700020	Threading or tapping machines, n.e.c., NC	28	850
700080	Threading or tapping machines, n.e.c., non-NC	65	2162
8460110080	Flat surface grinding machines, NC	5	844
190010	Flat surface grinding mach., recip.-table type, non-NC	15	181
190050	Flat surface grinding machines, n.e.c., non-NC	5	592
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	31	11671
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	3	972
290030	Grinding machines, internal cylindrical, non-NC	3	86
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	88	3543
310080	Sharpening machines (tool & cutter grinding), NC	8	690
390050	Sharpening machines (tool or cutter grinding), non-NC	299	2124
400060	Honing or lapping machines, NC	0	0
400080	Honing or lapping machines, non-NC	64	919
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	1	24
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	269	2933
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	57	941
200010	Shaping or slotting machines, NC	2	208
200090	Shaping or slotting machines, non-NC	12	318
300060	Broaching machines, NC	0	0
300080	Broaching machines, non-NC	19	749
401050	Gear hobbers	25	1839
401070	Gear shapers	1	409
401090	Gear cutting machines, n.e.c.	18	10744
405060	Gear grinding or finishing machines	9	1727
500050	Sawing or cutting-off machines, NC	20	960
500090	Sawing or cutting-off machines, non-NC	414	4954
9000000001	Metal cutting machine tools, n.e.c.	169	7475
9800000001	Used or rebuilt machine tools	1494	12882
9900000001	Machine tools valued at less than $3,025	10392	6066
	Y-T-D Cutting Total	14243	147428
	NC Y-T-D Cutting Total*	397	64351

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U.S. EXPORTS
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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	5	346
8457100015	0	0	0	0	8	1210	0	0	7	1009
100025	0	0	0	0	0	0	0	0	2	220
100035	0	0	0	0	1	278	0	0	2	837
100045	0	0	0	0	0	0	2	114	5	370
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	98
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	49	0	0	4	354	0	40	5	503
110050	1	399	0	0	1	118	0	0	2	217
110090	0	0	0	0	0	0	0	0	4	710
190030	0	0	0	0	0	0	0	0	1	18
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	104
190090	1	8	0	0	0	0	0	0	7	227
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	214
991050	0	0	0	0	0	0	0	0	1	10
995090	0	0	0	0	0	0	0	0	4	188
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	6	369
290040	0	0	0	0	0	0	0	0	0	0
290050	1	10	0	0	0	0	0	0	3	15
290070	0	0	0	0	0	0	0	0	4	15
290090	0	0	0	0	0	0	1	61	35	186
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	266
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	1	25	0	0	1	33
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	480
590030	0	0	0	0	0	0	0	0	7	187
610080	0	0	0	0	0	0	0	0	1	416
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	12	0	0	0	0	0	0	3	67
700020	0	0	0	0	1	24	0	0	0	0
700080	5	200	0	0	3	204	1	15	8	204
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	1	15	1	11
190050	0	0	0	0	0	0	0	0	2	126
210080	0	0	0	0	0	0	0	0	2	1838
290010	0	0	0	0	0	0	0	0	1	119
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	5	407	5	148
310080	0	0	0	0	0	0	4	548	0	0
390050	1	8	0	0	0	0	22	196	37	341
400060	0	0	0	0	0	0	0	0	0	0
400080	5	57	0	0	4	41	0	0	8	106
900060	0	0	0	0	0	0	0	0	0	0
900080	4	40	1	16	3	35	2	13	67	677
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	109
200090	0	0	0	0	0	0	0	0	2	44
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	4	52
401050	0	0	0	0	8	450	0	0	1	30
401070	0	0	1	409	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	1	8	0	0	0	0	0	0	0	0
500050	0	0	0	0	3	49	0	0	11	468
500090	1	9	0	0	0	0	0	0	78	768
9000000001	1	506	0	0	0	0	8	720	36	397
9800000001	10	279	1	5	2	14	10	273	180	1843
9900000001	208	161	24	18	392	260	59	73	896	872
Y-T-D Tot	241	1745	27	447	431	3061	115	2475	1450	15257
NC YTD Tot*	3	954	0	0	18	2033	14	1422	56	8109

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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
[illegible]000	2	413	0	0	25	1770	0	0	0	0
100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	1	246	0	0	0	0
100045	0	0	4	304	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	280	1	585	0	0
300010	1	1050	0	0	6	11410	0	0	0	0
300090	1	1038	0	0	0	0	0	0	0	0
8458110010	0	0	1	851	0	0	0	0	0	0
110030	3	347	1	100	1	130	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	2	21	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	35	38	3191	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	3	218	1	109	0	0	0	0
290090	0	0	0	0	0	0	64	290	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	80	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	[illegible]	0	0
690090	0	0	0	0	0	0	1	[illegible]	0	0
700020	6	144	0	0	0	0	0	[illegible]	0	0
700080	0	0	0	0	1	67	0	0	0	0
8460110080	0	0	0	0	0	0	2	760	1	31
190010	0	0	0	0	0	0	0	0	0	0
190050	1	87	0	0	0	0	0	0	0	0
210080	2	878	2	634	2	1492	1	427	0	0
290010	0	0	2	853	0	0	0	0	0	0
290030	0	0	0	0	1	23	0	0	0	0
290050	13	377	0	0	13	450	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	7	44	39	252	86	559	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	4	88	12	141	7	112	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	21	8	120	18	186	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	11	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	150	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	11	324	1	185	0	0	2	177	0	0
401050	0	0	0	0	13	699	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	1	715	1	197	3	743	1	841	0	0
405060	0	0	0	0	1	789	0	0	0	0
500050	0	0	0	0	2	330	0	0	0	0
500090	13	235	2	27	30	252	0	0	0	0
9000000001	5	918	5	260	13	1072	3	21	0	0
9800000001	77	1015	32	389	150	1276	2	67	1	15
9900000001	0	0	370	207	765	487	61	36	12	10
Y-T-D Tot	145	7662	453	4644	1137	25548	224	3962	14	56
NC YTD Tot*	15	3320	15	2263	62	17863	3	1187	1	31

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	38	0	0	0	0	2	127
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	2	440	0	0	0	0	0	0
100045	1	35	0	0	0	0	0	0	13	2462
200010	0	0	1	335	0	0	0	0	1	139
200090	0	0	1	1090	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	8	426	3	220	0	0	2	259
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	264
190030	0	0	3	84	0	0	0	0	5	47
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	5	311	0	0	0	0
190090	0	0	2	8	3	25	0	0	23	505
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	261
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	3	179
991050	0	0	0	0	0	0	0	0	10	167
995090	0	0	0	0	0	0	0	0	9	470
8459100000	0	0	0	0	0	0	0	0	1	38
210080	0	0	6	617	0	0	0	0	2	209
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	16
290090	4	17	1	3	0	0	0	0	23	114
310010	0	0	0	0	0	0	0	0	0	0
310040	2	2450	0	0	0	0	0	0	1	130
310070	0	0	0	0	0	0	0	0	2	105
390040	0	0	0	0	1	33	0	0	0	0
390050	0	0	0	0	0	0	0	0	3	109
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	4	258
510080	0	0	0	0	0	0	0	0	3	168
590030	0	0	1	19	0	0	0	0	3	150
610080	0	0	0	0	0	0	0	0	1	54
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	37	24	710	0	0	17	171
700020	0	0	0	0	1	215	0	0	3	36
700080	0	0	0	0	0	0	0	0	11	60
8460110080	0	0	0	0	0	0	0	0	1	26
190010	0	0	0	0	0	0	0	0	1	12
190050	0	0	1	231	1	148	0	0	0	0
210080	2	421	3	704	9	2744	0	0	1	229
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	2	63
290050	0	0	2	159	11	522	0	0	12	144
310080	0	0	0	0	1	64	0	0	1	22
390050	0	0	67	444	3	15	4	21	8	87
400060	0	0	0	0	0	0	0	0	0	0
400080	5	61	5	159	1	45	0	0	0	0
900060	0	0	0	0	0	0	0	0	1	24
900[illegible]0	1	5	34	440	26	309	0	0	23	176
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	2	55	0	0	5	82
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	28
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	11
401050	0	0	0	0	0	0	0	0	2	61
401070	0	0	0	0	0	0	0	0	0	0
401090	3	2050	6	3419	1	850	0	0	0	0
405060	0	0	1	856	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	5	129	62	776	21	333	2	37	28	306
9000000001	1	7	24	611	3	1301	0	0	26	297
9800000001	38	251	20	1097	19	187	1	10	447	2334
9900000001	299	68	1537	607	900	320	2	3	1556	718
Y-T-D Tot	361	5495	1789	12600	1035	8406	9	71	2263	11119
NC YTD Tot*	5	2906	42	3093	14	3243	0	0	39	4580

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	34
8457100015	0	0	2	183	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	464	0	0	0	0	0	0	1	916
100045	1	310	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	63	0	0	0	0	2	172	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	53	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	217	0	0	0	[illegible]	0	0	0	0
290090	32	142	0	0	0	[illegible]	0	0	3	1045
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	8	264	1	29	1	24	1	174
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	[illegible]	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	35	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	27	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	3	1129	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	543	0	0	4	160	0	0	0	0
310080	0	0	0	0	0	0	0	0	2	56
390050	0	0	2	12	0	0	1	8	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	3	17	0	0	1	5	2	25	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	5	91	2	14	1	6	12	110	4	69
8461100060	0	0	0	[illegible]	0	0	0	0	0	0
100080	2	7	2	[illegible]	0	0	0	0	2	13
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	23	5	51
500050	0	0	0	0	0	0	1	29	0	0
500090	41	199	9	79	2	45	0	0	3	46
9000000001	0	0	11	472	0	0	3	28	1	13
9800000001	10	19	144	482	24	166	60	286	17	145
9900000001	112	71	153	107	25	27	336	131	544	184
Y-T-D Tot	218	2195	333	1631	59	466	424	2001	584	2747
NC YTD Tot*	4	889	2	183	1	27	6	1330	3	973

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 91 - March 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	97	0	0	0	0	0	0
8457100015	0	0	3	422	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	3	2366
100045	0	0	2	156	0	0	2	175	3	613
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	3	10473	0	0	1	260
8458110010	0	0	0	0	4	324	0	0	0	0
110030	0	0	17	1260	0	0	2	163	3	315
110050	0	0	6	1298	0	0	3	270	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	2	19	0	0	0	0	2	8
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	5	233	0	0	0	0	0	0
190090	0	0	1	10	0	0	0	0	18	257
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	220
991050	0	0	6	97	0	0	0	0	1	11
995090	0	0	0	0	0	0	2	84	2	85
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	49
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	5	0	0	0	0	39	173
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	5	234
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	28
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	82	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	13	575
610080	0	0	0	0	0	0	0	0	1	37
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	25	0	0	0	0	11	259
700020	0	0	0	0	0	0	0	0	17	432
700080	0	0	0	0	0	0	20	1358	16	54
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	12	143
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	357	0	0	0	0	3	819
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	29	0	0	0	0	0	0	16	604
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	23	0	0	0	0	17	109
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	7	63
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	15	151	0	0	14	145	26	310
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	2	20	0	0	1	4	39	734
200010	0	0	0	0	0	0	0	0	1	99
200090	0	0	0	0	0	0	0	0	7	96
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	599	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	2	1929
405060	0	0	0	0	0	0	0	0	0	0
500050	2	50	1	34	0	0	0	0	0	0
500090	1	10	75	1084	0	0	9	179	32	440
9000000001	2	143	15	293	0	0	6	59	6	358
9800000001	26	207	90	587	13	39	47	246	73	1649
9900000001	14	14	805	337	0	0	153	156	1169	1198
Y-T-D Tot	46	452	1053	6507	21	11435	260	2920	1551	14528
NC YTD Tot*	2	50	40	3782	4	324	7	608	41	5184

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - March 91

RELEASED: June 5, 1991

Metal Forming Machine Tools

		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	103	3086
8462100030	Headers and upsetters, including cold headers	9	4079
100050	Forging or die stamping machines, and hammers, n.e.c.	42	7937
210080	Bending, folding, straight. or flat. mach., incl presses, NC	62	8596
290030	Press brakes, non-NC	29	573
290040	Bending rolls, non-NC	18	682
290050	Bending, folding, straight., or flat., n.e.c., non-NC	228	8585
310080	Shearing machines, NC	18	1550
390050	Shearing machines, non-NC	97	2989
410080	Punching or notching mach., incl. comb. punch & shear, NC	26	5449
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	131	4566
910060	Hydraulic presses, NC	6	370
910090	Hydraulic presses, non-NC	169	3455
990030	Presses, n.e.c., NC	28	2503
990040	Presses, mechanical, non-NC	67	4652
990060	Presses, n.e.c., non-NC	247	7020
8463100080	Draw benches for bars, tubes, profiles, wire or the like	52	2238
200080	Thread rolling machines	15	359
300080	Machines for working wire	178	5685
900080	Metal forming machine tools, n.e.c.	261	12388
9800000002	Used or rebuilt machine tools	767	12836
9900000002	Machine tools valued at less than $3,025	3929	3192
	Y-T-D Forming Total	6482	102793
	NC Y-T-D Forming Total	140	18468
	Cutting and Forming Totals:		
	Y-T-D Total	20725	250221
	NC Y-T-D Total*	537	82820

Other Manufacturing Technology

		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	165810
2000000000	Parts for working rubber or plastics - heading 8477	0	68007
2710003070	Quenching or cutting oils	0	1395
8428900010	Industrial robots for lifting, handling, loading or unload	208	1239
8431390090	Parts industrial robots, handling and loading - heading 8428	0	22842
8456100000	Laser, light or photon beam for working any material	174	9567
200000	Ultrasonic process for working any material	16	347
8477106010	Injection molding mach., for rubber or oth. thermosetting	44	2995
106070	Injection molding machines, for thermoplastics	86	9342
200005	Extruders; rubber or other thermosetting mat., single screw	27	1933
200015	Extruders; rubber or thermosetting, other incl. multi. screw	31	3004
200030	Extruders; thermoplastics, single screw	117	4219
200060	Extruders; thermoplastics, other incl. multi. screw	34	5400
300000	Blow molding machines	204	9498
400000	Vacuum-molding and other thermoforming machines	310	1339
510010	Machines for molding or retreading pneumatic tires	1011	3281
510090	Machines for molding or otherwise forming inner tubes	151	5126
590000	Machines for molding or otherwise forming n.e.c.	364	3637
800000	Machines for working rubber or plastics n.e.c.	1285	20541
8479899040	Industrial robots, n.e.c.	1319	16049
908040	Industrial robot parts	0	9110
8537100030	Numerical controls for controlling machine tools	414	5932
9024100000	Machines and appliances for testing metals	0	15157
9031100000	Machines for balancing mechanical parts	0	6016
300000	Profile projectors	0	1486
9032810040	Industrial process control instr., hydraulic or pneumatic	251498	11616

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	3	2	761	2	354
8462100030	0	0	0	0	0	0	0	0	1	509
100050	1	70	1	44	0	0	0	0	4	2463
210080	0	0	0	0	0	0	3	475	14	2717
290030	0	0	0	0	0	0	0	0	12	151
290040	0	0	0	0	0	0	0	0	6	92
290050	7	164	0	0	0	0	0	0	98	2135
310080	0	0	0	0	0	0	0	0	3	277
390050	0	0	0	0	0	0	0	0	23	379
410080	0	0	0	0	0	0	1	77	4	840
490050	0	0	0	0	0	0	1	13	18	200
910060	0	0	0	0	0	0	0	0	1	185
910090	3	23	0	0	0	0	0	0	16	300
990030	0	0	0	0	0	0	0	0	2	21
990040	0	0	0	0	0	0	17	754	0	0
990060	1	250	0	0	0	0	1	20	4	47
8463100080	0	0	0	0	0	0	0	0	13	1459
200080	0	0	0	0	0	0	0	0	0	0
300080	1	4	0	0	2	42	6	52	12	453
900080	10	208	1	29	1	9	1	18	16	208
9800000002	7	40	1	10	1	5	2	40	104	1953
9900000002	33	33	0	0	130	94	25	21	356	358
Y-T-D Tot	63	793	3	84	136	153	59	2230	709	15103
NC YTD Tot	0	0	0	0	0	0	4	552	24	4040
C&F YTD	304	2538	30	531	567	3214	174	4705	2159	30360
C&F NC YTD*	3	954	0	0	18	2033	18	1974	80	12148

Other Manufacturing Technology

1000000000	0	2360	0	741	0	2019	0	3885	0	29700
2000000000	0	1025	0	2418	0	867	0	1297	0	19249
2710003070	0	19	0	0	0	56	0	18	0	306
8428900010	0	0	0	0	1	8	0	0	54	544
8431390090	0	885	0	7	0	1921	0	92	0	3373
8456100000	2	37	0	0	1	18	0	0	4	103
200000	0	0	0	0	2	54	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	7	259
106070	0	0	0	0	0	0	1	236	17	2900
200005	0	0	0	0	0	0	0	0	10	1086
200015	0	0	0	0	0	0	0	0	22	2409
200030	2	124	0	0	0	0	0	0	0	0
200060	1	19	0	0	1	1776	0	0	4	823
300000	0	0	0	0	77	1641	16	828	2	527
400000	0	0	0	0	0	0	1	3	17	204
510010	400	57	0	0	38	417	12	288	3	86
510090	3	41	11	275	0	0	0	0	0	0
590000	1	7	0	0	2	4	1	21	20	401
800000	1	14	0	0	0	0	30	440	351	7279
8479899040	8	63	0	0	0	0	0	0	659	4891
908040	0	20	0	0	0	22	0	0	0	2114
8537100030	1	14	0	0	2	25	1	13	38	378
9024100000	0	206	0	38	0	103	0	181	0	1622
9031100000	0	115	0	0	0	0	0	0	0	1834
300000	0	35	0	0	0	0	0	0	0	22
9032810040	576	77	1773	89	10761	560	164	141	12609	1031

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	916	1	5	5	37	7	78	0	0
8462100030	0	0	0	0	2	638	0	0	0	0
100050	0	0	2	146	4	641	0	0	0	0
210080	1	578	0	0	4	591	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	1	300	0	0	0	0
290050	2	64	2	50	9	175	2	9	4	76
310080	0	0	0	0	0	0	0	0	0	0
390050	2	127	1	200	2	20	0	0	0	0
410080	0	0	1	163	0	0	1	140	0	0
490050	9	538	0	0	7	102	1	8	7	29
910060	1	8	0	0	0	0	0	0	0	0
910090	1	31	0	0	16	743	0	0	0	0
990030	1	362	8	500	12	885	0	0	0	0
990040	1	500	0	0	20	1348	0	0	0	0
990060	0	0	11	553	6	1474	0	0	0	0
8463100080	0	0	0	0	3	76	0	0	0	0
200080	0	0	0	0	6	199	0	0	0	0
300080	1	14	17	212	43	1616	0	0	0	0
900080	1	691	0	0	24	738	11	287	2	288
9800000002	0	0	15	281	28	346	0	0	0	0
9900000002	23	19	139	115	376	231	18	7	18	15
Y-T-D Tot	45	3849	197	2226	568	10160	40	529	31	409
NC YTD Tot	3	948	9	663	16	1475	1	140	0	0
C&F YTD	190	11511	650	6870	1705	35708	264	4491	45	465
C&F NC YTD*	18	4268	24	2926	78	19339	4	1327	1	31

Other Manufacturing Technology

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1397	0	5762	0	18247	0	867	0	1122
2000000000	0	341	0	1097	0	3987	0	624	0	122
2710003070	0	17	0	40	0	9	0	5	0	81
8428900010	2	12	86	347	13	61	0	0	0	0
8431390090	0	1102	0	573	0	586	0	37	0	460
8456100000	0	0	1	12	7	449	1	15	0	0
200000	0	0	0	0	0	0	1	15	0	0
8477106010	0	0	3	391	2	90	0	0	0	0
106070	16	513	5	327	4	290	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	38	990	17	456	0	0	0	0
200060	0	0	0	0	2	75	0	0	0	0
300000	4	65	4	1550	10	181	0	0	0	0
400000	0	0	23	200	30	37	0	0	0	0
510010	0	0	1	36	1	22	7	28	0	0
510090	1	1650	0	0	0	0	0	0	0	0
590000	4	63	23	249	42	658	23	21	0	0
800000	73	3576	29	604	81	245	1	24	0	0
8479899040	19	115	81	3336	133	1257	0	0	0	0
908040	0	0	0	263	0	588	0	0	0	0
8537100030	5	75	58	836	55	812	0	0	0	0
9024100000	0	674	0	308	0	1893	0	72	0	31
9031100000	0	144	0	0	0	184	0	1049	0	3
300000	0	0	0	42	0	144	0	0	0	0
9032810040	30	46	7075	475	21061	1310	1103	101	2850	142

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology

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Metal Forming

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	33	356	14	246
8462100030	0	0	4	2502	2	430	0	0	0	0
100050	1	390	3	2272	4	213	0	0	2	106
210080	1	27	5	230	1	500	0	0	6	378
290030	0	0	2	88	0	0	0	0	11	173
290040	0	0	0	0	0	0	1	20	2	49
290050	0	0	15	300	4	101	1	12	35	1668
310080	0	0	4	266	0	0	0	0	7	588
390050	0	0	2	67	13	250	0	0	42	1073
410080	0	0	1	2010	4	262	0	0	4	639
490050	8	94	17	309	1	11	0	0	20	360
910060	0	0	0	0	2	104	0	0	1	8
910090	1	32	0	0	2	88	0	0	105	1622
990030	1	224	3	455	0	0	0	0	0	0
990040	0	0	2	107	0	0	0	0	3	110
990060	1	22	55	1541	0	0	1	245	151	1858
8463100080	1	23	8	189	0	0	0	0	0	0
200080	0	0	2	60	3	43	0	0	4	56
300080	7	251	9	312	4	49	0	0	13	224
900080	11	462	39	774	23	2086	0	0	19	202
9800000002	37	600	53	1271	34	1814	0	0	282	2542
9900000002	27	28	288	174	115	104	4	5	792	746
Y-T-D Tot	96	2151	512	12927	212	6057	40	638	1513	12647
NC YTD Tot	2	251	13	2960	7	866	0	0	18	1612
C&F YTD	457	7646	2301	25527	1247	14463	49	709	3776	23766
C&F NC YTD*	7	3157	55	6053	21	4109	0	0	57	6192

Other Manufacturing Technology

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	7096	0	16203	0	9253	0	872	0	10278
2000000000	0	908	0	2382	0	3982	0	473	0	6101
2710003070	0	10	0	101	0	51	0	0	0	115
8428900010	1	15	4	64	0	0	0	0	0	0
8431390090	0	21	0	705	0	118	0	66	0	562
8456100000	3	863	54	4425	2	430	0	0	2	304
200000	6	106	1	22	0	0	0	0	0	0
8477106010	0	0	2	129	0	0	0	0	22	1477
106070	0	0	7	856	2	90	0	0	18	2611
200005	0	0	0	0	0	0	0	0	12	627
200015	0	0	7	378	0	0	0	0	2	216
200030	3	75	2	655	10	259	0	0	22	1004
200060	0	0	11	337	0	0	0	0	5	1482
300000	1	13	0	0	21	386	0	0	39	1084
400000	0	0	86	47	24	232	0	0	36	401
510010	9	233	1	81	1	87	0	0	22	464
510090	0	0	5	777	11	266	0	0	33	792
590000	16	255	95	1160	5	16	7	11	60	283
800000	6	95	7	227	7	49	2	39	251	3021
8479899040	74	617	25	246	2	93	2	29	14	1820
908040	0	154	0	2232	0	45	0	8	0	293
8537100030	9	138	11	134	18	229	3	34	7	136
9024100000	0	432	0	3319	0	655	0	0	0	591
9031100000	0	31	0	199	0	981	0	0	0	827
300000	0	716	0	71	0	52	0	0	0	0
9032810040	11463	755	6541	473	6564	408	3	10	862	284

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	16	14	157	0	0	0	0	1	5
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	381	0	0	0	0	0	0
210080	0	0	6	439	0	0	0	0	2	50
290030	0	0	1	56	0	0	0	0	3	105
290040	0	0	0	0	0	0	0	0	0	0
290050	2	13	3	76	0	0	4	60	0	0
310080	2	326	1	44	0	0	0	0	0	0
390050	3	55	0	0	0	0	0	0	0	0
410080	4	445	1	110	0	0	0	0	0	0
490050	1	4	6	49	3	204	1	15	2	50
910060	0	0	0	0	0	0	0	0	0	0
910090	2	13	1	15	0	0	1	14	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	40	0	0	0	0	8	360
990060	0	0	2	51	0	0	2	11	1	350
8463100080	0	0	1	6	1	14	11	281	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	19	0	0	4	126	8	170	0	0
900080	12	1278	4	62	0	0	0	0	9	1306
9800000002	2	287	20	428	0	0	0	0	0	0
9900000002	127	65	84	74	9	7	66	59	77	38
Y-T-D Tot	158	2521	147	1988	17	351	93	609	103	2264
NC YTD Tot	6	771	8	593	0	0	0	0	2	50
C&F YTD	376	4716	480	3619	76	817	517	2610	687	5011
C&F NC YTD*	10	1660	10	776	1	27	6	1330	5	1023
Other Manufacturing Technology										
1000000000	0	4406	0	3080	0	1180	0	2373	0	1829
2000000000	0	2000	0	467	0	880	0	665	0	2305
2710003070	0	0	0	56	0	0	0	0	0	88
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	191	0	168	0	47	0	12	0	282
8456100000	0	0	3	68	0	0	2	114	1	47
200000	0	0	1	15	0	0	0	0	0	0
8477106010	0	0	2	194	0	0	0	0	0	0
106070	0	0	0	0	0	0	2	321	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	1	680	0	0	0	0	0	0
300000	0	0	0	0	0	0	3	6	0	0
400000	1	15	1	45	1	14	0	0	0	0
510010	320	108	0	0	7	170	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	1	8	2	27	4	46	5	84	4	35
800000	103	53	8	83	0	0	1	20	5	136
8479899040	33	199	1	14	0	0	34	535	3	414
908040	0	3	0	2148	0	23	0	392	0	23
8537100030	2	26	28	436	8	80	0	0	1	14
9024100000	0	230	0	405	0	270	0	222	0	518
9031100000	0	3	0	270	0	0	0	0	0	15
300000	0	72	0	64	0	0	0	20	0	113
9032810040	26717	1461	9913	617	14979	767	3744	189	926	79

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 91 - March 91

Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	2	32	0	0	1	5	15	115
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	52	8	569	0	0	0	0	9	591
210080	2	444	6	219	0	0	0	0	11	1948
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	72	0	0	0	0	7	150
290050	0	0	9	583	0	0	0	0	31	3099
310080	1	49	0	0	0	0	0	0	0	0
390050	0	0	1	725	0	0	1	9	7	85
410080	1	176	3	314	0	0	0	0	1	274
490050	1	15	8	1382	0	0	0	0	20	1180
910060	0	0	0	0	0	0	0	0	1	66
910090	0	0	1	128	0	0	1	35	19	410
990030	0	0	0	0	0	0	0	0	1	57
990040	0	0	11	635	0	0	0	0	4	798
990060	0	0	4	112	0	0	1	34	6	452
8463100080	2	13	7	122	0	0	0	0	5	54
200080	0	0	0	0	0	0	0	0	0	0
300080	2	602	26	423	0	0	0	0	22	1116
900080	4	196	35	927	0	0	4	68	34	2549
9800000002	22	44	20	136	0	0	4	181	135	2858
9900000002	18	16	325	252	0	0	23	20	856	711
Y-T-D Tot	54	1608	467	6631	0	0	35	351	1184	16513
NC YTD Tot	4	670	9	532	0	0	0	0	14	2345
C&F YTD	100	2061	1520	13139	21	11435	295	3271	2735	31041
C&F NC YTD*	6	719	49	4314	4	324	7	608	55	7529

Other Manufacturing Technology

1000000000	0	2094	0	13962	0	786	0	2576	0	23722
2000000000	0	553	0	3274	0	0	0	1408	0	11584
2710003070	0	27	0	15	0	0	0	17	0	363
8428900010	0	0	7	98	0	0	0	0	40	90
8431390090	0	1048	0	1256	0	49	0	1834	0	7448
8456100000	0	0	8	301	0	0	41	1402	42	980
200000	0	0	0	0	0	0	0	0	5	134
8477106010	0	0	1	65	0	0	0	0	5	389
106070	0	0	6	379	0	0	2	101	6	719
200005	0	0	0	0	0	0	4	110	1	110
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	7	180	0	0	0	0	16	476
200060	0	0	2	42	0	0	0	0	7	167
300000	11	212	6	2447	0	0	0	0	10	559
400000	0	0	85	16	0	0	0	0	5	124
510010	0	0	9	242	0	0	24	33	156	930
510090	29	25	6	126	0	0	0	0	52	1174
590000	0	0	40	164	0	0	0	0	9	123
800000	23	314	111	2665	0	0	15	235	180	1420
8479899040	0	0	166	1843	0	0	1	6	64	570
908040	0	0	0	547	0	0	0	59	0	176
8537100030	4	44	124	1936	0	0	0	0	39	573
9024100000	0	8	0	1625	0	170	0	121	0	1465
9031100000	0	0	0	143	0	0	0	57	0	162
300000	0	0	0	58	0	0	0	0	0	78
9032810040	85541	277	13305	1272	0	0	565	62	12373	989

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 - March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	1	165	1	165
Denmark	25	992	21	121	46	1113
Finland	4	25	17	683	21	708
Greece	1	11	217	881	218	892
Hungary	4	95	0	0	4	95
Iceland	15	10	15	13	30	22
Ireland	39	302	16	1858	55	2160
Luxembourg	2	3	1	14	3	17
Norway	51	646	79	45	130	690
Poland	3	8	1	220	4	227
Portugal	13	23	7	10	20	33
Romania	5	175	0	0	5	175
Sweden	173	2232	100	264	273	2496
Turkey	4	881	3	113	7	994
Yugoslavia	2	24	2	305	4	328
Oth Europe	14	45	1	9	15	54
TOTAL	4539	67267	2216	29587	6755	96855
NORTH AND CENTRAL AMERICA						
Bahamas	1	12	1	15	2	27
Barbados	0	0	17	109	17	109
Belize	0	0	0	0	0	0
Bermuda	0	0	5	4	5	4
Costa Rica	25	180	27	48	52	228
Dominican Rep	15	16	6	10	21	26
El Salvador	0	0	4	130	4	130
Guatemala	6	14	7	143	13	157
Haiti	0	0	3	18	3	18
Honduras	39	134	7	139	46	273
Jamaica	0	0	2	14	2	14
Panama	8	5	19	280	27	285
Trinidad	1	28	56	48	57	77
Oth N & C Am.	5	99	7	71	12	170
TOTAL	3813	26865	2383	28779	6196	55645
SOUTH AMERICA						
Argentina	101	2164	9	90	110	2254
Bolivia	8	5	1	3	9	8
Chile	79	1155	45	894	124	2049
Colombia	48	392	32	215	80	607
Ecuador	22	40	35	82	57	122
Paraguay	0	0	0	0	0	0
Peru	18	72	21	86	39	159
Uruguay	25	15	0	0	25	15
Oth South Am.	1	15	1	13	2	28
TOTAL	677	9253	238	3965	915	13218
OCEANIA						
New Zealand	17	146	10	14	27	161
Oth Oceania	2	3	0	0	2	3
TOTAL	260	1895	73	807	333	2702

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 - March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	456	2077	56	2167	512	4244
Iran	2	20	0	0	2	20
Iraq	0	0	0	0	0	0
Israel	15	66	48	345	63	411
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	3	7	22	11	25	18
Pakistan	1	25	15	50	16	75
Philippines	32	197	61	2156	93	2353
Qatar	0	0	0	0	0	0
Saudi Arabia	33	337	63	2631	96	2969
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	186	1	186
United Arab Emr	48	149	17	18	65	167
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	6	81	6	81
TOTAL	4769	40464	1473	37914	6242	78378
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	13	293	11	121	24	414
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	1	33	4	842	5	875
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	1	20	0	0	1	20
Mauritius	0	0	7	486	7	486
Morocco	0	0	14	12	14	12
Niger	0	0	0	0	0	0
Nigeria	66	708	8	7	74	715
South Africa	87	577	55	273	142	850
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	11	48	0	0	11	48
Oth Africa	6	4	0	0	6	4
TOTAL	185	1684	99	1740	284	3424

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91 - March 91

RELEASED: June 5, 1991

		TOTAL YTD	
		UNITS	$000
8456301020	Traveling wire electro-discharge machines	160	11598
301050	Electro-discharge machines, n.e.c., NC	60	6033
301070	Electro-discharge machines, n.e.c., non-NC	137	1091
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	428	36606
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	29	5154
100035	Horizontal machining centers, ATC	137	30298
100045	Machining centers, n.e.c.	78	7436
200010	Unit construction mach. (single station transfer), NC	9	640
200090	Unit construction mach. (single station transfer), non-NC	1	217
300010	Multi-station transfer machines, NC	3	1768
300090	Multi-station transfer machines, non-NC	9	4738
8458110010	Horizontal lathes, multiple spindle, NC	61	10901
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	478	39116
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	99	14409
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	15	7245
190030	Horizontal engine or toolroom lathes, non-NC	932	8696
190050	Automatic bar and/or chucking mach., single spindle, non-NC	119	3099
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	10	1582
190090	Horizontal lathes, n.e.c., non-NC	189	4347
911060	Vertical turret lathes, multiple spindle, NC	3	550
911080	Vertical turret lathes, n.e.c., NC	6	1131
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	11	2109
915070	Vertical lathes, excluding VTL's, n.e.c., NC	13	2804
991050	Vertical turret lathes, non-NC	43	504
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	81	2399
8459100000	Way-type unit head machines	1	58
210080	Other drilling machines, NC	99	7971
290040	Drilling machines, multiple spindle, non-NC	7	973
290050	Drilling machines, radial, non-NC	66	692
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	6	60
290090	Drilling machines, n.e.c., non-NC	135	3476
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1065
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	25	4485
310070	Boring-milling machines, n.e.c., NC	10	1434
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	19	2505
400040	Boring machines, vertical, NC	3	254
400050	Boring machines, vertical, non-NC	19	469
400070	Boring machines, n.e.c., NC	11	1207
400080	Boring machines, n.e.c., non-NC	105	1761
510080	Milling machines, knee type, NC	178	2153
590030	Milling machines, knee type, non-NC	491	4716
610080	Milling machines, excluding knee type, n.e.c., NC	109	11353
690050	Milling machines, profile, dup., or die sinking, non-NC	9	126
690070	Milling machines, bed type, non-NC	14	445
690090	Milling machines, n.e.c., non-NC	155	1744
700020	Threading or tapping machines, n.e.c., NC	49	3419
700080	Threading or tapping machines, n.e.c., non-NC	15	551
8460110080	Flat surface grinding machines, NC	18	1577
190010	Flat surface grinding mach., recip.-table type, non-NC	121	1896
190050	Flat surface grinding machines, n.e.c., non-NC	341	3735
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	141	22123
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	131	2707
290030	Grinding machines, internal cylindrical, non-NC	58	1375
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	215	7213
310080	Sharpening machines (tool & cutter grinding), NC	36	1629
390050	Sharpening machines (tool or cutter grinding), non-NC	212	2490
400060	Honing or lapping machines, NC	14	1428
400080	Honing or lapping machines, non-NC	40	2257
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	20	762
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	319	11815
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	6	37
200010	Shaping or slotting machines, NC	1	213
200090	Shaping or slotting machines, non-NC	10	1383
300060	Broaching machines, NC	2	96
300080	Broaching machines, non-NC	4	435
401020	Gear cutting for bevel gears	0	0
401030	Gear hobbers	33	5228
401040	Gear shapers	20	2267
401060	Gear cutting machines, n.e.c.	15	2187
405050	Gear grinding or finishing for bevel gears	1	49
405070	Gear grinding or finishing machines, n.e.c.	7	3381
500050	Sawing or cutting-off machines, NC	48	6495
500090	Sawing or cutting-off machines, non-NC	351	5930
9000000001	Metal cutting machine tools, n.e.c.	76	3498
9800000001	Used or rebuilt machine tools	771	12920
9900000001	Machine tools valued at less than $3,025	224813	21415
	Y-T-D Cutting Total	232464	381968
	NC Y-T-D Cutting Total	2369	246034

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91 - March 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	5	2672
301070	0	0	1	15	1	66	0	0	5	342
8457100015	0	0	0	0	0	0	4	334	6	847
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	8	2113
100045	0	0	0	0	3	143	0	0	10	1503
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	2	1675
300090	0	0	0	0	2	1324	0	0	0	0
8458110010	0	0	4	391	0	0	0	0	5	1579
110030	0	0	0	0	0	0	3	402	0	0
110050	0	0	0	0	0	0	3	291	0	0
110090	0	0	0	0	0	0	0	0	7	5085
190030	0	0	35	290	0	0	0	0	0	0
190050	0	0	4	81	0	0	0	0	4	1643
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	1	21	0	0	0	0	1	127
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	30	0	0	1	981
991050	0	0	0	0	0	0	3	294	0	0
995090	0	0	24	164	1	16	0	0	16	121
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	599
290040	0	0	0	0	1	3	0	0	0	0
290050	0	0	2	25	0	0	0	0	2	10
290070	0	0	0	0	0	0	0	0	4	38
290090	0	0	0	0	4	338	1	1208	5	261
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	11	1946
310070	0	0	0	0	2	15	0	0	7	1398
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	9	1881
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	5	73	0	0	0	0
400080	0	0	0	0	24	363	40	818	23	224
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	3	364	4	66
610080	0	0	0	0	0	0	0	0	6	4954
690050	0	0	0	0	0	0	2	11	1	8
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	2	25	0	0	5	364
700020	0	0	0	0	0	0	0	0	2	517
700080	1	5	0	0	0	0	0	0	2	14
8460110080	0	0	0	0	1	3	0	0	12	837
190010	0	0	9	195	0	0	0	0	1	247
190050	0	0	0	0	5	16	3	97	6	636
210080	0	0	0	0	0	0	0	0	30	1314
290010	0	0	0	0	14	146	0	0	66	389
290030	0	0	0	0	0	0	0	0	2	490
290050	0	0	0	0	32	118	5	28	56	1980
310080	0	0	0	0	4	22	0	0	13	251
390050	1	25	0	0	13	48	2	45	92	1129
400060	0	0	0	0	0	0	0	0	7	491
400080	0	0	0	0	5	55	0	0	8	625
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	7	83	8	37	45	3783
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	6	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	39
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	26	4719
401040	0	0	0	0	0	0	0	0	5	2027
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	755	0	0	0	0	0	0	1	262
500050	0	0	0	0	0	0	1	28	20	6230
500090	0	0	0	0	62	858	0	0	92	1446
9000000001	0	0	0	0	7	126	1	10	15	894
9800000001	3	231	0	0	44	415	5	136	124	2770
9900000001	5	6	0	0	279	332	508	475	2583	632
Y-T-D Tot	12	1028	80	1182	520	4619	592	4577	3360	62160
NC YTD Tot	0	0	4	391	17	286	11	1054	160	35267

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91 - March 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	86	6978	0	0	0	0	0	0
301050	0	0	34	2367	0	0	0	0	0	0
301070	0	0	8	161	0	0	0	0	0	0
8457100015	0	0	275	26316	0	0	12	783	0	0
100025	1	744	17	3065	0	0	0	0	0	0
100035	0	0	124	26748	2	146	0	0	0	0
100045	2	1229	37	2865	5	278	0	0	0	0
200010	0	0	0	0	9	640	0	0	0	0
200090	0	0	1	217	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	752	0	0	0	0	0	0	0	0
8458110010	0	0	50	7828	0	0	0	0	0	0
110030	1	124	397	33983	18	1012	0	0	0	0
110050	0	0	94	13772	0	0	0	0	0	0
110090	0	0	8	2160	0	0	0	0	0	0
190030	0	0	4	70	26	243	64	806	30	299
190050	0	0	1	60	0	0	0	0	1	103
190070	0	0	4	1074	0	0	0	0	0	0
190090	0	0	27	2212	0	0	0	0	2	25
9[illegible]1060	0	0	3	550	0	0	0	0	0	0
[illegible]1030	0	0	3	825	2	241	0	0	0	0
91[illegible]0	0	0	8	1934	0	0	0	0	0	0
915070	3	437	5	585	0	0	0	0	0	0
991050	16	67	1	33	0	0	0	0	14	76
995090	1	258	5	243	17	1000	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	94	7280	0	0	0	0	0	0
290040	0	0	6	970	0	0	0	0	0	0
290050	7	153	4	113	1	15	0	0	5	73
290070	0	0	1	16	0	0	0	0	1	6
290090	2	51	10	791	1	128	0	0	103	548
310010	0	0	3	1065	0	0	0	0	0	0
310040	0	0	1	342	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	541	0	0	0	0	0	0
400040	0	0	2	245	0	0	0	0	0	0
400050	15	209	2	172	0	0	0	0	0	0
400070	2	212	4	922	0	0	0	0	0	0
400080	14	184	3	136	0	0	0	0	0	0
510080	1	397	2	450	0	0	0	0	134	900
590030	3	122	4	84	0	0	0	0	318	2832
610080	0	0	16	2622	0	0	2	84	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	5	298	0	0	0	0	0	0
690090	1	18	3	142	0	0	0	0	2	24
700020	0	0	45	2833	0	0	0	0	0	0
700080	0	0	9	365	0	0	0	0	2	161
8460110080	2	108	2	459	0	0	0	0	0	0
190010	9	237	8	423	0	0	61	585	0	0
190050	1	22	1	8	0	0	0	0	1	62
210080	1	406	96	14685	0	0	0	0	0	0
290010	0	0	16	725	0	0	0	0	0	0
290030	0	0	2	190	0	0	0	0	0	0
290050	0	0	51	3904	1	2	0	0	1	398
310080	0	0	4	687	0	0	0	0	0	0
390050	3	31	17	221	0	0	0	0	0	0
400060	0	0	7	937	0	0	0	0	0	0
400080	0	0	12	311	0	0	0	0	0	0
900060	1	277	6	301	0	0	0	0	0	0
900080	25	582	131	4663	0	0	0	0	9	639
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	213	0	0	0	0	0	0
200090	0	0	8	1344	0	0	0	0	0	0
300060	0	0	1	49	0	0	0	0	0	0
300080	0	0	1	421	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	2	317	4	176	0	0	0	0
401040	0	0	14	227	0	0	0	0	0	0
401060	0	0	5	360	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	2	504	0	0	0	0	0	0
500050	7	88	1	34	0	0	0	0	0	0
500090	27	578	71	2376	0	0	0	0	0	0
9000000001	11	94	28	1974	2	7	0	0	0	0
9800000001	37	338	371	3423	0	0	1	198	2	21
9900000001	6040	1315	12680	2022	4877	442	148	24	69	72
Y-T-D Tot	6234	9033	14948	194210	4965	4330	288	2480	694	6241
NC YTD Tot	21	4022	1428	163198	36	2317	14	867	134	900

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 91 - March 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	24	3394	20	108	0	0	30	1117
301050	0	0	9	828	12	166	0	0	0	0
301070	2	23	11	235	20	155	0	0	89	93
8457100015	0	0	0	0	57	3719	59	4078	15	529
100025	0	0	0	0	8	1254	0	0	3	131
100035	0	0	0	0	2	250	1	1041	0	0
100045	1	410	0	0	0	0	1	122	19	887
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	1	93	0	0	0	0	0	0
300090	0	0	5	975	0	0	1	1687	0	0
8458110010	0	0	1	632	0	0	1	472	0	0
110030	0	0	7	894	28	1521	8	598	16	583
110050	0	0	0	0	0	0	2	347	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	30	0	0	312	2365	92	1496	366	3097
190050	0	0	4	565	59	454	0	0	46	191
190070	0	0	2	378	1	33	1	43	2	53
190090	0	0	2	98	56	547	24	429	76	888
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	1	65	0	0	0	0	0	0
915050	0	0	3	175	0	0	0	0	0	0
915070	0	0	0	0	0	0	2	771	0	0
991050	0	0	0	0	8	30	1	3	0	0
995090	0	0	0	0	4	29	7	501	6	67
8459100000	0	0	0	0	0	0	0	0	1	58
210080	0	0	0	0	1	12	0	0	1	79
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	34	216	0	0	11	87
290070	0	0	0	0	0	0	0	0	0	0
290090	2	21	0	0	1	21	2	49	4	57
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	713	0	0	4	954	8	529
310070	0	0	0	0	0	0	0	0	1	21
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	18	0	0	2	66
400040	0	0	0	0	0	0	0	0	1	9
400050	0	0	0	0	0	0	0	0	2	87
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	-0	0	0	0	0	1	35
510080	0	0	0	0	38	322	3	85	0	0
590030	1	41	0	0	99	604	21	434	38	170
610080	0	0	1	753	69	1489	1	1366	14	84
690050	0	0	2	90	4	17	0	0	0	0
690070	0	0	0	0	9	147	0	0	0	0
690090	0	0	1	73	43	355	1	23	97	721
700020	0	0	0	0	1	25	1	44	0	0
700080	0	0	0	0	0	0	1	6	0	0
8460110080	0	0	1	169	0	0	0	0	0	0
190010	0	0	0	0	26	180	0	0	7	29
190050	0	0	9	265	296	2204	11	291	8	132
210080	4	1647	5	1552	0	0	4	2515	1	6
290010	0	0	22	1102	8	199	5	145	0	0
290030	20	380	0	0	9	54	0	0	25	262
290050	0	0	7	69	39	377	12	118	11	220
310080	0	0	5	159	0	0	0	0	10	510
390050	0	0	9	236	3	19	59	476	13	262
400060	0	0	0	0	0	0	0	0	0	0
400080	3	1119	1	13	0	0	10	129	1	7
900060	0	0	1	98	0	0	0	0	12	86
900080	2	882	1	62	20	238	18	182	53	665
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	5	31	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	46
300080	0	0	0	0	0	0	3	14	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	16
401040	0	0	0	0	0	0	0	0	1	14
401060	0	0	0	0	0	0	6	1	4	1825
405050	0	0	0	0	0	0	1	49	0	0
405070	0	0	3	1860	0	0	0	0	0	0
500050	0	0	0	0	19	116	0	0	0	0
500090	0	0	3	40	28	156	11	56	57	420
9000000001	0	0	2	114	4	104	2	21	4	154
9800000001	11	122	22	991	21	131	71	2976	59	1169
9900000001	907	1002	149	55	176946	12819	75	79	19547	2139
Y-T-D Tot	956	5677	315	16745	178309	30453	527	21631	20664	17601
NC YTD Tot	5	2057	62	9638	256	9007	89	12413	132	4617

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - March 91

RELEASED: June 5, 1991

Metal Forming Machine Tools		TOTAL YTD	
		UNITS	$000
8454300010	[illegible] casting machines	70	11224
8462100030	Headers and upsetters, including cold headers	18	3516
100050	Forging or die stamping machines, and hammers, n.e.c.	139	9995
2100[illegible]	Bending, folding, straight. or flat. mach., incl presses, NC	124	12232
2[illegible]	Press brakes, non-NC	62	2223
2[illegible]	Bending rolls, non-NC	26	850
290050	Bending, folding, straight., or flat., n.e.c., non-NC	307	8176
310080	Shearing machines, NC	5	622
390050	Shearing machines, non-NC	99	3736
410080	Punching or notching mach., incl. comb. punch & shear, NC	40	5967
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	71	2346
910060	Hydraulic presses, NC	7	4819
910090	Hydraulic presses, non-NC	430	6974
990030	Presses, n.e.c., NC	0	0
990035	Mechanical transfer presses, non-NC	2	13699
990045	Mechanical presses, n.e.c., non-NC	27	1309
990060	Presses, n.e.c., non-NC	86	7466
8463100080	Draw benches for bars, tubes, profiles, wire or the like	60	4695
200080	Thread rolling machines	16	869
300080	Machines for working wire	299	15458
900080	Metal forming machine tools, n.e.c.	348	9330
9800000002	Used or rebuilt machine tools	1844	8184
9900000002	Machine tools valued at less than $3,025	2678	1175
	Y-T-D Forming Total	6758	134864
	NC Y-T-D Forming Total	176	23640
	Cutting and Forming Totals:		
	Y-T-D Total	239222	516832
	NC Y-T-D Total	2545	269674

Other Manufacturing Technology		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	136684
2000000000	Parts for working rubber or plastics - heading 8477	0	86005
2710003070	Quenching or cutting oils	0	105
8428900010	Industrial robots for lifting, handling, loading or unload	452	7223
8431390080	Parts industrial robots, handling and loading - heading 8428	0	24177
8456101010	Laser, light or photon beam for working metal, NC	32	6861
101020	Laser, light or photon beam for working metal, non-NC	21	4516
105000	Laser, light or photon beam for other materials	19	2171
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	12	93
205000	Ultrasonic processes for working other materials	26	154
8477103000	Injection molding mach., for manufacturing shoes	3	353
106010	Injection molding mach., for rubber or oth. thermosetting	238	26788
106050	Injection molding mach., for thermoplastics	498	50644
200005	Extruders; rubber or other thermosetting mat., single screw	4	1308
200015	Extruders; rubber or thermosetting, other incl. multi. screw	57	7333
200035	Extruders; thermoplastics, single screw, less than 6.4cm	14	292
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	31	4278
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	5	554
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	34	2764
300000	Blow molding machines	36	10559
400000	Vacuum-molding and other thermoforming machines	45	3831
510010	Machines for molding or retreading pneumatic tires	131	8140
510090	Machines for molding or otherwise forming inner tubes	28	1129
590000	Machines for molding or otherwise forming n.e.c.	140	11784
800000	Machines for working rubber or plastics n.e.c.	531	52459
8479899040	Industrial robots, n.e.c.	1015	33536
908040	Industrial robot parts	0	9169
8537100030	Numerical controls for controlling machine tools	1872	9151
9024[illegible]	Machines and appliances for testing metals	0	2988
90[illegible]	Machines for balancing mechanical parts	0	534
[illegible]00	Profile projectors	0	1730
9032810020	Industrial process control instr., hydraulic	36744	788
810060	Industrial process control instr., pneumatic	57250	1613

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	14	913	2	218	0	0
8462100030	1	73	0	0	2	30	0	0	2	638
100050	0	0	0	0	21	672	1	36	17	1357
210080	1	561	0	0	15	2187	0	0	5	1001
290030	19	1023	0	0	28	984	0	0	0	0
290040	0	0	0	0	15	533	0	0	2	88
290050	0	0	0	0	79	1466	1	78	37	1248
310080	0	0	0	0	0	0	1	35	1	125
390050	10	228	0	0	16	559	0	0	4	475
410080	0	0	0	0	1	2	1	9	12	1937
490050	0	0	0	0	6	696	0	0	17	1021
910060	0	0	0	0	0	0	0	0	4	3957
910090	0	0	0	0	15	1396	4	13	57	307
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	31	1332	0	0	9	2598
8463100080	0	0	0	0	0	0	0	0	36	1835
200080	0	0	0	0	0	0	0	0	0	0
300080	10	597	3	39	11	663	0	0	40	4669
900080	0	0	0	0	20	147	11	91	98	3931
9800000002	22	290	1	500	134	1042	3	191	86	1040
9900000002	0	0	0	0	168	174	18	38	137	95
Y-T-D Tot	63	2771	4	539	576	12794	42	709	564	26322
NC YTD Tot	1	561	0	0	16	2189	2	44	22	7020
C&F Y-T-D	75	3799	84	1721	1096	17413	634	5286	3924	88481
C&F NC YTD	1	561	4	391	33	2475	13	1098	182	42287

Other Manufacturing Technology

1000000000	0	919	0	159	0	17791	0	2424	0	33978
2000000000	0	102	0	24	0	12849	0	8645	0	37030
2710003070	0	0	0	0	0	50	0	0	0	5
8428900010	1	53	0	0	38	523	3	196	28	396
8431390080	0	4	0	20	0	4248	0	460	0	2748
8456101010	0	0	0	0	0	0	0	0	1	675
101020	0	0	0	0	0	0	0	0	15	1322
105000	0	0	0	0	10	877	0	0	3	833
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	47
106010	0	0	0	0	4	214	6	907	47	4486
106050	7	61	0	0	107	14366	0	0	151	11899
200005	0	0	0	0	0	0	0	0	1	748
200015	0	0	0	0	2	5	1	91	21	4704
200035	0	0	0	0	14	292	0	0	0	0
200045	0	0	0	0	2	279	0	0	12	3269
200055	0	0	0	0	0	0	0	0	1	411
200065	0	0	0	0	4	222	0	0	10	872
300000	0	0	0	0	10	251	5	2134	6	5191
400000	0	0	0	0	2	82	1	16	23	1019
510010	0	0	0	0	38	1890	6	706	6	4022
510090	0	0	0	0	3	8	1	8	1	90
590000	1	350	0	0	36	1224	0	0	11	1927
800000	18	131	0	0	92	1304	9	1268	163	19053
8479899040	0	0	0	0	4	38	0	0	16	1771
908040	0	0	0	0	0	132	0	20	0	4426
8537100030	0	0	0	0	0	0	0	0	35	133
9024100000	0	9	0	0	0	185	0	0	0	579
9031100000	0	0	0	0	0	14	0	3	0	443
300000	0	0	0	0	0	15	0	0	0	261
9032810020	0	0	0	0	8	31	0	0	126	77
810060	0	0	2	2	21500	68	210	21	7538	379

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	13	255	14	8774	0	0	1	300	0	0
8462100030	10	2592	3	182	0	0	0	0	0	0
100050	3	125	55	5210	3	154	0	0	0	0
210080	4	536	79	5557	0	0	0	0	0	0
290030	0	0	4	66	0	0	0	0	0	0
290040	0	0	4	20	0	0	0	0	0	0
290050	56	672	64	2360	0	0	0	0	2	71
310080	1	109	2	353	0	0	0	0	0	0
390050	11	1301	15	764	0	0	0	0	1	27
410080	0	0	24	3362	0	0	0	0	0	0
490050	11	61	6	134	0	0	0	0	25	331
910060	0	0	2	826	0	0	0	0	0	0
910090	6	405	197	1569	6	129	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	2	13699	0	0	0	0	0	0
990045	4	45	9	437	0	0	0	0	0	0
990060	3	321	25	2402	0	0	0	0	1	151
8463100080	2	6	22	2854	0	0	0	0	0	0
200080	0	0	13	816	0	0	0	0	0	0
300080	41	1543	178	6244	0	0	0	0	0	0
900080	7	1024	26	1124	0	0	0	0	30	337
9800000002	9	1181	113	2426	0	0	0	0	1	2
9900000002	86	27	347	118	0	0	0	0	103	97
Y-T-D Tot	267	10203	1204	59300	9	283	1	300	163	1016
NC YTD Tot	5	645	107	10099	0	0	0	0	0	0
C&F Y-T-D	6501	19237	16152	253510	4974	4613	289	2780	857	7256
C&F NC YTD	26	4667	1535	173298	36	2317	14	867	134	900

Other Manufacturing Technology

1000000000	0	4976	0	35996	0	597	0	904	0	542
2000000000	0	3125	0	12317	0	649	0	417	0	42
2710003070	0	0	0	48	0	0	0	0	0	0
8428900010	1	14	364	4820	0	0	1	76	0	0
8431390080	0	199	0	8971	0	0	0	31	0	33
8456101010	0	0	26	5441	0	0	0	0	0	0
101020	0	0	1	292	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	6	39	0	0	0	0	0	0
205000	0	0	3	13	0	0	0	0	0	0
8477103000	1	250	0	0	0	0	0	0	0	0
106010	7	959	99	14640	3	249	4	201	0	0
106050	7	2047	162	18444	2	165	0	0	0	0
200005	0	0	1	454	0	0	0	0	0	0
200015	0	0	6	1337	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	2	230	2	10	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	1	1123	0	0	0	0	0	0
300000	3	1581	5	1146	0	0	0	0	0	0
400000	1	2	12	2614	0	0	0	0	0	0
510010	1	82	20	795	0	0	0	0	0	0
510090	4	95	14	841	0	0	0	0	0	0
590000	4	268	34	4542	0	0	0	0	0	0
800000	31	2651	92	18237	2	39	0	0	0	0
8479899040	3	703	681	28462	3	36	0	0	3	3
908040	0	110	0	2815	0	0	0	0	0	0
8537100030	1	12	1746	8966	0	0	0	0	0	0
9024100000	0	202	0	419	0	0	0	0	0	148
9031100000	0	15	0	24	0	0	0	0	0	0
300000	0	0	0	919	0	0	0	0	0	0
9032810020	0	0	2297	137	3700	26	0	0	0	0
810060	2	12	157	599	13500	41	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - March 91

Metal Forming	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	523	18	2	1	20	6	218
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	4	896	19	687	4	23	12	836
210080	5	1542	5	112	0	0	1	186	9	549
290030	0	0	0	0	0	0	0	0	11	151
290040	2	102	0	0	1	24	2	83	0	0
290050	29	742	19	168	5	113	8	1171	7	88
310080	0	0	0	0	0	0	0	0	0	0
390050	1	29	0	0	0	0	38	306	3	47
410080	0	0	0	0	0	0	0	0	2	657
490050	3	24	0	0	2	11	0	0	1	68
910060	0	0	0	0	0	0	0	0	1	36
910090	2	2473	5	464	128	61	7	49	3	107
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	1	547	1	115	8	116	4	48
990060	2	39	1	10	11	492	2	79	1	43
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	3	53	0	0	0	0
300080	0	0	7	1484	4	122	5	97	0	0
900080	0	0	92	1419	6	75	38	857	20	326
9800000002	8	58	125	116	8	45	1317	1254	17	39
9900000002	6	13	73	69	1533	437	9	19	198	88
Y-T-D Tot	58	5023	333	5807	1739	2236	1440	4260	295	3300
NC YTD Tot	5	1542	5	112	0	0	1	186	12	1242
C&F Y-T-D	1014	10700	648	22553	180048	32689	1967	25892	20959	20901
C&F NC YTD	10	3599	67	9750	256	9007	90	12599	144	5859

Other Manufacturing Technology

1000000000	0	2432	0	9340	0	4791	0	11698	0	10136
2000000000	0	227	0	2989	0	1303	0	1772	0	4515
2710003070	0	0	0	0	0	0	0	2	0	0
8428900010	10	221	0	0	0	0	0	0	6	924
8431390080	0	1176	0	549	0	387	0	2150	0	3199
8456101010	0	0	2	236	0	0	1	483	2	26
101020	0	0	0	0	0	0	3	516	2	2385
105000	0	0	0	0	0	0	4	7	2	454
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	6	55	0	0
205000	0	0	4	7	0	0	18	109	1	24
8477103000	0	0	0	0	1	56	0	0	0	0
106010	0	0	47	3666	15	586	1	67	5	813
106050	0	0	9	1274	14	377	7	133	32	1878
200005	0	0	0	0	0	0	1	99	1	7
200015	0	0	0	0	18	327	0	0	9	867
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	12	94	1	397
200055	2	133	0	0	1	8	0	0	1	2
200065	0	0	0	0	13	340	3	176	3	30
300000	0	0	0	0	1	27	3	60	3	170
400000	0	0	0	0	0	0	6	99	0	0
510010	0	0	0	0	0	0	10	85	50	560
510090	0	0	0	0	3	69	1	14	1	4
590000	3	259	9	180	11	558	7	1853	24	623
800000	0	0	18	3134	26	1167	24	2273	56	3202
8479899040	7	313	53	1302	0	0	3	93	242	816
908040	0	174	0	432	0	3	0	552	0	507
8537100030	18	11	1	2	53	20	0	0	18	6
9024100000	0	544	0	147	0	0	0	570	0	184
9031100000	0	8	0	0	0	0	0	21	0	5
300000	0	0	0	0	0	0	0	444	0	91
9032810020	0	0	3690	150	0	0	2000	19	24923	348
810060	10823	292	5	4	2909	21	20	7	584	168

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	510	1372	16	353	526	1725
Bulgaria	0	0	0	0	0	0
Czechoslovakia	43	358	2	13	45	371
Denmark	127	616	22	312	149	928
Finland	39	59	16	950	55	1009
Hungary	10	352	0	0	10	352
Ireland	76	166	0	0	76	166
Luxembourg	0	0	1	13	1	13
Netherlands	232	2526	7	210	239	2736
Norway	137	301	4	61	141	362
Poland	43	1131	2	7	45	1137
Portugal	0	0	2	36	2	36
Romania	2	14	0	0	2	14
USSR	12	310	0	0	12	310
Yugoslavia	117	827	4	667	121	1494
Oth Europe	15	178	0	0	15	178
TOTAL	14053	135302	3006	58734	17059	194036
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	206	67	9	222	215	289
Oth N & C Am.	9	53	0	0	9	53
TOTAL	735	4739	585	13017	1320	17756
SOUTH AMERICA						
Argentina	0	0	1	36	1	36
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	80	1182	5	574	85	1757
OCEANIA						
Australia	90	860	21	107	111	967
New Zealand	2	76	0	0	2	76
Oth Oceania	0	0	0	0	0	0
TOTAL	92	936	21	107	113	1043

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 March 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	18406	5110	91	44	18497	5154
Hong Kong	506	94	19	145	525	239
India	16	126	2	31	18	157
Indonesia	0	0	25	2	25	2
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	20	889	4	57	24	946
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	42	1554	2	5	44	1559
Oth Asia	0	0	0	0	0	0
TOTAL	217501	239250	3096	62403	220597	301653
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	1	550	45	29	46	579
Swaziland	2	9	0	0	2	9
Oth Africa	0	0	0	0	0	0
TOTAL	3	559	45	29	48	587

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

REPORT

A8620-3

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL
No. 72-91 July 3, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – APRIL 1991
(Values in Millions of U.S. Dollars)

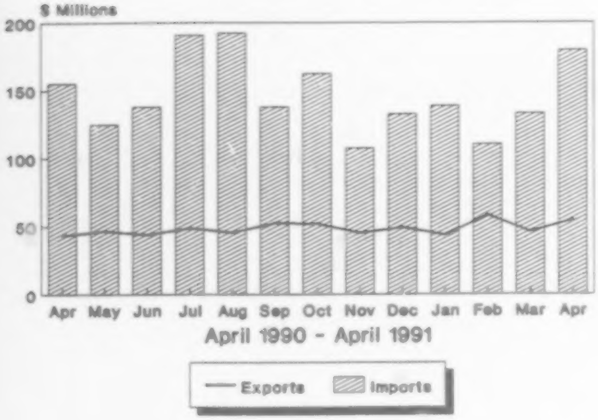
	Apr. 1991	Mar. 1991	Average Jan.-Mar.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 54.2	$ 45.7	$ 49.1	$201.6	$216.8	(7.0%)
Imports	$179.5	$133.1	$127.3	$561.4	$580.7	(3.3%)
Balance	($125.3)	($ 87.4)	($ 78.2)	($359.8)	($363.9)	(1.1%)
METAL FORMING MACHINE TOOLS						
Exports	$ 38.6	$ 36.1	$ 34.3	$141.4	$158.2	(10.6%)
Imports	$ 83.9	$ 43.9	$ 45.0	$218.8	$152.1	43.9%
Balance	$ 45.3	($ 7.8)	($ 10.7)	($ 77.4)	$ 6.1	NM
MACHINE TOOL TOTAL						
Exports	$ 92.8	$ 81.8	$ 83.4	$343.1	$375.0	(8.5%)
Imports	$263.4	$177.0	$172.3	$780.2	$732.9	6.5%
Balance	($170.6)	($ 95.2)	($ 88.9)	($437.1)	($357.9)	22.1%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 31.5	$ 28.6	$ 27.6	$114.3	$128.7	(11.2%)
Imports	$129.4	$ 96.1	$ 89.9	$399.1	$407.7	(2.1%)
Balance	($ 97.9)	($ 67.5)	($ 62.3)	($284.8)	($279.0)	2.1%
OTHER MANUFACTURING TECHNOLOGY						
Exports	$136.7	$139.1	$135.0	$541.7	$598.0	(9.4%)
Imports	$181.3	$182.7	$169.9	$691.0	$687.3	0.1%
Balance	($ 44.6)	($ 43.6)	($ 34.9)	($149.3)	($ 89.3)	67.2%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. NM = not meaningful; ( ) denotes negative. Individual items may not add up to totals due to rounding.

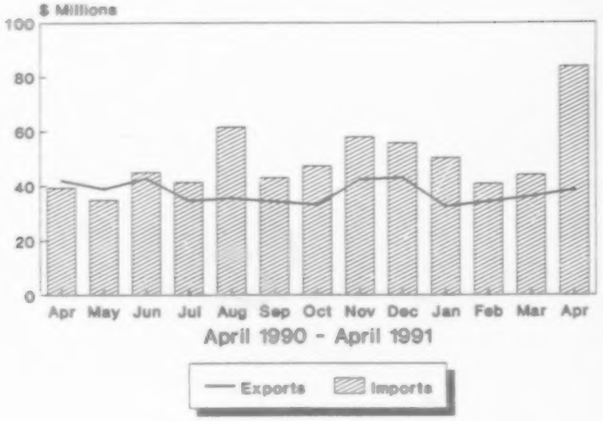
- U.S. machine tool imports in April totalled $263.4 million, the highest monthly total ever. The previous high: $253.9 million in August 1990. Year-to-date imports are up 6% over 1990.
- U.S. machine tool exports rose 13.4% in April from March to $92.8 million, the highest level since March 1990. Year-to-date exports are down 9% over last year.
- Exports of NC machines so far in 1991 are down 11% over last year; imports are down 2%.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

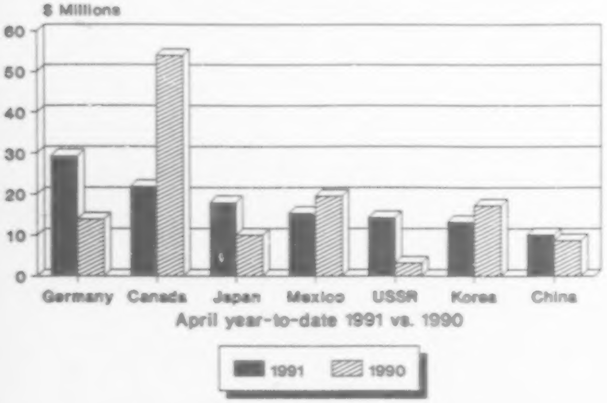
Exports

- Exports of metal cutting machines in April rose to $54.2 million, up from $45.7 million in March. Exports of grinding machines rose to $11.5 million from $8.4 million in March; exports of milling machines were $6.7 million, up from $1.6 million in March.

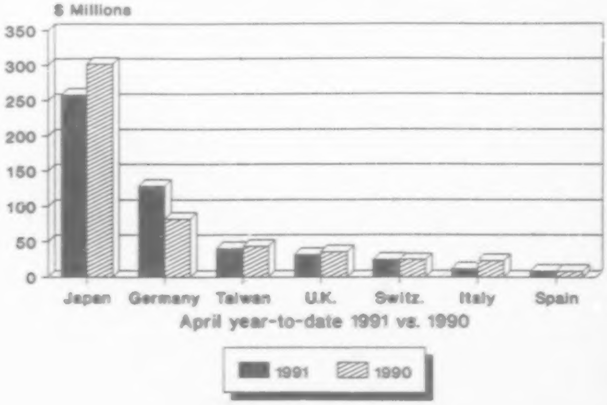
- Year-to-date exports of many major product groups were down from last year, including boring machines (down 22% in value terms), grinding machines (down 26%) and machining centers (down 29%). However, exports of gear cutting machines were up 64% and exports of drilling machines were up 24%.

- Canada was the largest export market in April at $6.6 million, for a year-to-date total of $21.9 million -- down 59% from last year. Germany remained the top year-to-date export market at $29.3 million, up 112% over 1990.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports of metal cutting machines in April rose to $179.5 million from $133.1 million in March. A major reason: 13 machining centers from Germany valued at $37.0 million.

- Year-to-date imports ($561.4 million) were down 3% from last year. Imports of NC horizontal lathes ($97.2 million) were down 11%; imports of grinding machines ($87.8 million) were up marginally.

- Imports from Japan reached $258.0 million so far in 1991, down 15% from last year. Imports from Germany ($128.7 million) were up 57%; imports from Taiwan and the United Kingdom ($40.4 million and $31.8 million) were down 6% and 11%, respectively.

METAL FORMING MACHINE TOOLS

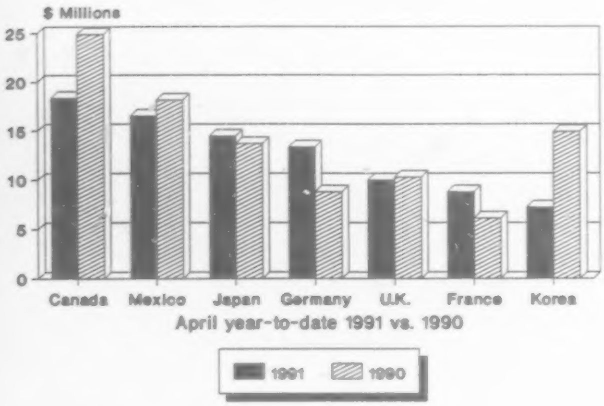
Exports

- Exports of metal forming machines rose for the third straight month, reaching $38.6 million in April. Year-to-date exports of $141.4 million were down 11% from 1990.

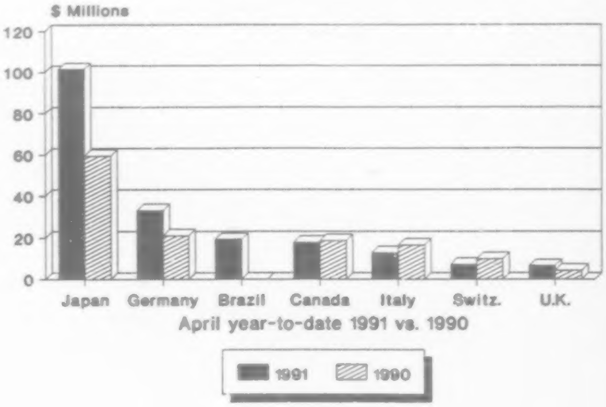
- France was the top export market in April at $6.6 million, followed by Mexico and the United Kingdom. Top year-to-date markets include Canada ($18.4 million, down 26% from last year), Mexico ($16.5 million, down 9%) and Japan ($14.5 million, up 6%).

- Exports so far in 1991 of punching and shearing machines were down 19%; exports of bending and forming machines were up 10%.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Imports of metal forming machines jumped to $83.9 million in April, up from an average of $45.0 million for the previous three months. April's total was second all-time to the $90.8 million recorded in August 1986.

- Imports in April included three non-NC mechanical transfer presses (two from Brazil, one from Japan) valued collectively at $37.4 million. Year-to-date imports of presses ($85.7 million, 637 units) were up 252% in value terms but down 33% in unit terms.

- Major import sources in 1991 through April include Japan ($101.5 million, up 71% over last year), Germany ($33.2 million, up 59%), Brazil ($19.2 million, up from zero last year at this time), and Canada ($17.8 million, down 5%).

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of other manufacturing technology totalled $136.7 million in April, up slightly from the average for the first three months of 1991. Year-to-date exports of machine tool parts and accessories were $221.5 million, down from $244.2 million last year.

- Exports of injection molding machines reached 196 units and $20.0 million in 1991 through April. Comparable figures for 1990: 182 units and $19.7 million. Exports of industrial robots reached $22.4 million so far in 1991, down from $23.9 million in 1990 at this time.

Imports

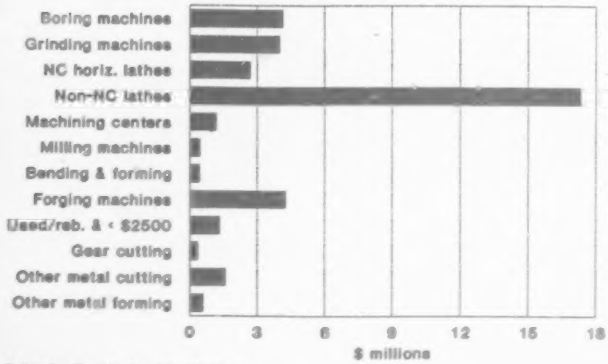
- Year-to-date imports of other manufacturing technology were up fractionally from last year to $691.0 million. Included were machine tool parts and accessories valued at $185.4 million, down from $193.3 million last year.

- Imports of numerical controls so far in 1991 were 2,610 units valued at $12.0 million. The comparable figure for 1990: 5,861 units valued at $15.9 million. Imports of blow molding machines in April were $5.8 million for a year-to-date total of $16.4 million, up from $13.7 million last year.

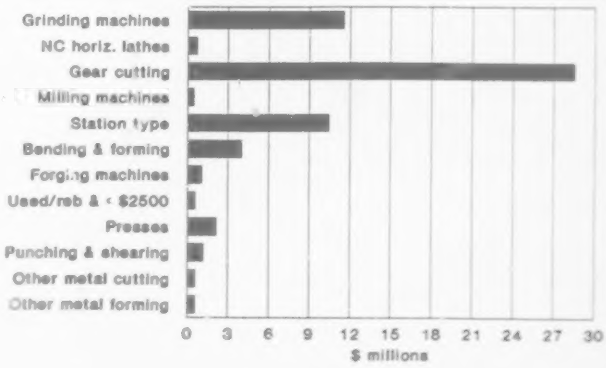
MONTHLY FOCUS

From January 1989 through April 1991, U.S. machine tool exports to Eastern Europe (Bulgaria, Czechoslovakia, Hungary, Poland, Romania, the Soviet Union, and Yugoslavia) totalled $61.4 million, far higher than U.S. imports from these countries of $38.3 million. During this period, 77% of the imports came from two countries -- Yugoslavia ($18.0 million) and Poland ($11.5 million) -- followed by Hungary ($4.5 million) and Czechoslovakia ($3.3 million). Imports from the Soviet Union totalled just $0.9 million. Conversely, the Soviet Union accounted for 73% ($44.8 million) of U.S. machine tool exports to Eastern Europe since January 1989, followed by Poland ($7.1 million, 12%), Hungary ($4.9 million, 8%) and Yugoslavia ($2.8 million, 5%). U.S. imports from Eastern Europe have been dominated by non-NC lathes, while gear cutting machines, grinding machines and station type machines have paced exports.

U.S. Machine Tool Imports From Eastern Europe*, Jan. 1989-April 1991



U.S. Machine Tool Exports To Eastern Europe*, Jan. 1989-April 1991



* = Bulgaria, Czechoslovakia, Hungary, Poland, Romania, Soviet Union, and Yugoslavia

1991 EXPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Germany	$3,749,927	$6,535,385	-42.6%	$29,297,824	$13,840,840	111.7%
Canada	6,628,334	5,169,017	28.2	21,885,379	53,997,609	-59.5
Japan	5,338,128	4,762,767	12.1	17,937,900	10,019,495	79.0
Mexico	4,156,659	5,000,595	-16.9	15,275,653	19,420,837	-21.3
USSR	2,799,932	39,000	7,079.3	14,234,533	3,207,507	343.8
Korea	4,801,299	3,226,403	48.8	13,207,383	17,191,356	-23.2
China	2,460,381	4,301,571	-42.8	10,122,474	8,603,309	17.7
United Kingdom	2,170,675	2,079,799	4.4	8,678,056	21,964,593	-60.5
France	2,607,023	726,385	258.9	7,250,681	4,006,122	81.0
Italy	607,256	54,072	1,023.1	6,102,318	5,809,793	5.0
India	1,683,009	648,123	159.7	5,644,569	8,340,197	-32.3
Belgium	1,774,931	428,857	313.9	4,835,882	9,609,173	-49.7
Venezuela	1,291,276	1,504,285	-14.2	4,211,239	2,316,555	81.8
Brazil	1,418,759	976,273	45.3	3,893,886	6,580,237	-40.8
Taiwan	432,565	2,043,602	-78.8	3,179,274	2,967,842	7.1
Netherlands	602,068	371,804	61.9	2,796,608	1,282,992	118.0
Switzerland	175,851	329,406	-46.6	2,176,650	2,057,250	5.8
Singapore	363,765	595,227	-38.9	1,994,362	1,933,353	3.2
Australia	156,199	639,136	-75.6	1,901,671	7,744,072	-75.4
Thailand	594,045	36,239	1,539.2	1,046,375	1,033,635	1.2
Malaysia	631,727	27,794	2,172.9	702,528	436,794	60.8
Spain	80,827	217,355	-62.8	546,354	1,585,827	-65.5
Austria	20,118	418,513	-95.2	467,486	125,034	273.9
Indonesia	25,626	7,354	248.5	81,705	115,636	-29.3

METAL FORMING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Canada	$3,262,558	$6,425,775	-49.2%	$18,365,508	$24,887,706	-26.2%
Mexico	3,866,382	4,794,606	-19.4	16,513,439	18,144,595	-9.0
Japan	1,547,174	4,366,654	-64.6	14,474,022	13,684,162	5.8
Germany	3,201,711	1,199,684	166.9	13,362,142	8,773,483	52.3
United Kingdom	3,377,446	2,464,820	37.0	10,008,757	10,304,647	-2.9
France	6,560,321	1,037,362	532.4	8,786,417	6,103,510	44.0
Korea	1,161,672	4,147,350	-72.0	7,218,658	14,900,186	-51.6
China	1,327,070	77,850	1,604.6	5,176,449	6,893,118	-24.9
Netherlands	2.516,223	1,068,955	135.4	5,037,394	2,769,475	81.9
Taiwan	1,343,620	1,058,035	27.0	3,607,541	7,472,391	-51.7
Singapore	613,801	1,141,403	-46.2	2,602,039	2,237,956	16.3
Brazil	293,804	1,225,025	-76.0	2,524,038	1,658,435	52.2
Italy	241,660	531,138	-54.5	2,393,065	3,392,787	-29.5
Indonesia	1,536,777	50,000	2,973.6	1,945,337	31,164	6,142.3
Thailand	281,051	690,799	-59.3	1,889,281	476,507	296.5
Australia	338,178	445,684	-24.1	1,130,687	2,650,432	-57.3
Switzerland	435,529	215,852	101.8	1,044,616	972,693	7.4
Malaysia	13,473	4,800	180.7	651,562	1,607,641	-59.5
India	120,279	37,146	223.8	649,306	4,953,256	-86.9
Belgium	457,632	27,480	1,565.3	610,398	1,456,261	-58.1
Spain	186,714	191,226	-2.4	537,927	1,289,811	-58.3
Venezuela	184,131	178,234	3.3	534,720	327,954	63.0
Austria	104,055	0	NA	187,657	779,026	-75.9
USSR	0	0	NA	0	0	NA

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Germany	$6,951,638	$7,735,069	-10.1%	$42,659,966	$22,614,323	88.6%
Canada	9,890,892	11,594,792	-14.7	40,250,887	78,885,315	-49.0
Japan	6,885,302	9,129,421	-24.6	32,411,922	23,703,657	36.7
Mexico	8,023,041	9,795,201	-18.1	31,789,092	37,565,432	-15.4
Korea	5,962,971	7,373,753	-19.1	20,426,041	32,091,542	-36.4
United Kingdom	5,548,121	4,544,619	22.1	18,686,813	32,269,240	-42.1
France	9,167,344	1,763,747	419.8	16,037,098	10,109,632	58.6
China	3,787,451	4,379,421	-13.5	15,298,923	15,496,427	-1.3
USSR	2,799,932	39,000	7,079.3	14,234,533	3,207,507	343.8
Italy	848,916	585,210	45.1	8,495,383	9,202,580	-7.7
Netherlands	3,118,291	1,440,759	116.4	7,834,002	4,052,467	93.3
Taiwan	1,776,185	3,101,637	-42.7	6,786,815	10,440,233	-35.0
Brazil	1,712,563	2,201,298	-22.2	6,417,924	8,238,672	-22.1
India	1,803,288	685,269	163.2	6,293,875	13,293,453	-52.7
Belgium	2,232,563	456,337	389.2	5,446,280	11,065,434	-50.8
Venezuela	1,475,407	1,682,519	-12.3	4,745,959	2,644,509	79.5
Singapore	977,566	1,736,630	-43.7	4,596,401	4,171,309	10.2
Switzerland	611,380	545,258	12.1	3,221,266	3,029,943	6.3
Australia	494,377	1,084,820	-54.4	3,032,358	10,394,504	-70.8
Thailand	875,096	727,038	20.4	2,935,656	1,510,142	94.4
Indonesia	1,562,403	57,354	2,624.1	2,027,042	146,800	1,280.8
Malaysia	645,200	32,594	1,879.5	1,354,090	2,044,435	-33.8
Spain	267,541	408,581	-34.5	1,084,281	2,875,638	-62.3
Austria	124,173	418,513	-70.3	655,143	904,060	-27.5

1991 IMPORTS

METAL CUTTING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Japan	$63,755,298	$72,546,463	-12.1%	$257,965,547	$301,849,513	-14.5%
Germany	66,588,829	23,034,113	189.1	128,748,405	81,847,040	57.3
Taiwan	9,993,711	6,732,173	48.4	40,446,526	42,980,509	-5.9
United Kingdom	10,122,039	9,254,974	9.4	31,753,398	35,630,844	-10.9
Switzerland	8,036,492	5,124,111	56.8	24,781,933	24,265,872	2.1
Italy	2,683,335	4,523,078	-40.7	11,716,814	22,971,519	-49.0
Spain	2,535,203	1,471,134	72.3	8,775,951	8,142,254	7.8
Sweden	2,336,186	1,209,298	93.2	8,012,775	3,994,767	100.6
France	1,951,606	1,437,921	35.7	6,528,975	7,927,742	-17.6
Korea	2,073,165	968,674	114.0	6,403,200	6,803,310	-5.9
Canada	1,444,655	1,387,153	4.1	6,063,417	7,435,963	-18.5
Singapore	866,473	629,998	37.5	3,346,319	7,773,325	-57.0
Brazil	1,918,042	15,045	12,648.7	3,100,410	5,451,593	-43.1
Belgium	2,853	225,530	-98.7	1,030,475	592,750	73.8

METAL FORMING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Japan	$42,213,010	$18,828,453	124.2%	$101,512,959	$59,365,604	71.0%
Germany	6,905,138	7,157,235	-3.5	33,226,840	20,871,243	59.2
Brazil	18,679,897	500,000	3,636.0	19,218,837	0	NA
Canada	4,966,621	5,205,499	-4.6	17,760,980	18,620,623	-4.6
Italy	2,441,848	3,840,972	-36.4	12,645,035	16,551,583	-23.6
Switzerland	1,296,434	1,393,150	-6.9	7,103,752	9,680,475	-26.6
United Kingdom	2,207,825	1,304,183	69.3	6,468,216	4,333,964	49.2
Sweden	665,006	1,706,037	-61.0	5,688,096	2,988,021	90.4
Belgium	826,021	1,492,395	-44.7	3,597,488	7,987,422	-55.0
Taiwan	299,561	468,429	-36.0	2,535,286	4,226,927	-40.0
Spain	29,223	100,185	-70.8	1,044,743	1,509,388	-30.8
France	231,053	163,070	41.7	940,163	380,374	147.2
Korea	80,276	253,675	-68.4	363,335	119,528	204.0
Singapore	0	0	NA	300,254	53,105	465.4

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	APRIL	MARCH	% CHANGE	APR YTD'91	APR YTD'90	% CHANGE
Japan	$105,968,308	$91,374,916	16.0%	$359,478,506	$361,215,117	-0.5%
Germany	73,493,967	30,191,348	143.4	161,975,245	102,718,283	57.7
Taiwan	10,293,272	7,200,602	43.0	42,981,812	47,207,436	-9.0
United Kingdom	12,329,864	10,559,157	16.8	38,221,614	39,964,808	-4.4
Switzerland	9,332,926	6,517,261	43.2	31,885,685	33,946,347	-6.1
Italy	5,125,183	8,364,050	-38.7	24,361,849	39,523,102	-38.4
Canada	6,411,276	6,592,652	-2.8	23,824,397	26,056,586	-8.6
Brazil	20,597,939	515,045	3,899.3	22,319,247	5,451,593	309.4
Sweden	3,001,192	2,915,335	2.9	13,700,871	6,982,788	96.2
Spain	2,564,426	1,571,319	63.2	9,820,694	9,651,642	1.8
France	2,182,659	1,600,991	36.3	7,469,138	8,308,116	-10.1
Korea	2,153,441	1,222,349	76.2	6,766,535	6,922,838	-2.3
Belgium	828,874	1,717,925	-51.8	4,627,963	8,580,172	-46.1
Singapore	866,473	629,998	37.5	3,646,573	7,826,430	-53.4

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	5,272	15,333,596
Boring Machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling Machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear Cutting Machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding Machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
Horizontal Lathes NC	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
Vertical Lathes NC	1	161,310	2	341,835	6	371,174	1	89,700
Lathes Non-NC	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling Machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining Centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station Type Machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other Metal Cutting	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & Shearing Machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & Forming Machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging Machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other Metal Forming	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	APRIL 1991 YTD		APRIL 1990		APRIL 1990 YTD	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	21,854	50,309,950	4,803	14,929,198	18,092	50,067,369
Boring Machines	33	4,534,630	8	1,954,122	42	5,838,849
Drilling Machines	368	8,336,091	62	1,031,525	319	6,740,971
Gear Cutting Machines	75	21,439,551	4	342,956	81	13,106,081
Grinding Machines	1,104	36,123,556	306	10,686,858	1,264	48,960,791
Horizontal Lathes NC	115	13,559,542	39	5,237,685	152	17,812,088
Vertical Lathes NC	10	964,019	5	262,000	26	2,377,514
Lathes Non-NC	181	4,402,287	65	2,364,278	247	6,805,835
Milling Machines	139	10,902,502	32	3,018,604	184	15,116,615
Machining Centers	99	18,854,300	26	4,477,012	175	26,609,372
Station Type Machines	20	26,795,070	2	596,029	48	18,334,599
Other Metal Cutting	1,089	27,960,608	269	6,223,447	1,259	30,130,847
Punching & Shearing Machines	429	19,148,900	111	3,759,666	494	23,559,935
Bending & Forming Machines	457	23,267,114	177	6,400,347	567	21,140,861
Presses	685	25,263,127	191	11,017,558	853	39,885,249
Forging Machines	62	12,884,858	26	3,198,154	99	13,870,082
Other Metal Forming	917	38,305,817	203	9,968,707	1,044	34,613,809
TOTAL	27,637	343,051,922	6,329	85,468,146	24,946	374,970,867

1991 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR '91 – APR '91 Units	% CHANGE MAR '91 – APR '91 Value	% CHANGE APR '90 – APR '91 Units	% CHANGE APR '90 – APR '91 Value	% CHANGE YTD '90 – YTD '91 Units	% CHANGE YTD '90 – YTD '91 Value
Used & Rebuilt & Under $2,500	-10.9%	24.1%	9.8%	2.7%	20.8%	0.5%
Boring Machines	42.9	59.2	25.0	-60.0	-21.4	-22.3
Drilling Machines	-4.1	-56.9	51.6	14.1	15.4	23.7
Gear Cutting Machines	37.5	72.4	450.0	1,859.6	-7.4	63.6
Grinding Machines	13.8	37.6	2.3	8.0	-12.7	-26.2
Horizontal Lathes NC	31.0	37.7	-2.6	-10.1	-24.3	-23.9
Vertical Lathes NC	-83.3	-75.8	-80.0	-65.8	-61.5	-59.5
Lathes Non-NC	88.2	53.4	-1.5	-40.8	-26.7	-35.3
Milling Machines	-37.5	313.0	9.4	123.0	-24.5	-27.9
Machining Centers	57.1	-7.4	26.9	27.8	-43.4	-29.1
Station Type Machines	-100.0	-100.0	-100.0	-100.0	-58.3	46.1
Other Metal Cutting	-17.4	-10.9	-1.1	4.7	-13.5	-7.2
Punching & Shearing Machines	84.7	0.2	41.4	22.2	-13.2	-18.7
Bending & Forming Machines	0.8	-33.2	-32.2	-24.5	-19.4	10.1
Presses	31.3	49.8	-12.0	-34.1	-19.7	-36.7
Forging Machines	-47.6	-79.0	-57.7	-72.9	-37.4	-7.1
Other Metal Forming	59.6	52.4	51.7	45.9	-12.2	10.7
TOTAL	-5.7	13.5	9.2	8.6	10.8	-8.5

1991 U.S. IMPORTS
BY PRODUCT GROUPS

	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	91,842	16,332,717
Boring Machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling Machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear Cutting Machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding Machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
Horizontal Lathes NC	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
Vertical Lathes NC	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Lathes Non-NC	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling Machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining Centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station Type Machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other Metal Cutting	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & Shearing Machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & Forming Machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging Machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other Metal Forming	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

	APRIL 1991 YTD		APRIL 1990		APRIL 1990 YTD	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	321,948	60,026,305	83,714	12,296,755	294,704	49,322,816
Boring Machines	242	18,803,277	47	1,821,173	185	9,138,945
Drilling Machines	420	16,135,782	113	3,595,961	497	15,671,713
Gear Cutting Machines	99	19,731,312	34	4,189,126	184	16,730,865
Grinding Machines	2,175	87,832,235	737	21,052,417	2,813	87,035,265
Horizontal Lathes NC	933	97,201,862	281	25,715,875	1,188	108,776,636
Vertical Lathes NC	48	10,167,944	6	1,455,000	48	7,874,758
Lathes Non-NC	1,691	25,161,393	976	10,109,253	2,871	37,958,353
Milling Machines	1,286	29,987,265	598	7,693,031	1,907	26,950,563
Machining Centers	861	138,699,432	344	48,979,703	1,244	153,347,991
Station Type Machines	42	11,797,921	41	8,192,567	81	18,719,145
Other Metal Cutting	1,248	59,366,954	425	12,556,824	1,739	57,893,370
Punching & Shearing Machines	315	17,100,329	146	3,941,347	581	23,552,541
Bending & Forming Machines	641	27,431,271	213	6,322,513	762	26,055,318
Presses	637	85,710,925	138	9,524,846	945	24,366,031
Forging Machines	201	19,796,805	69	3,905,455	376	23,826,637
Other Metal Forming	1,036	55,278,427	196	13,040,125	949	45,639,926
TOTAL	333,823	780,229,439	88,078	194,391,971	311,074	732,860,873

1991 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE MAR '91 – APR '91 Units	% CHANGE MAR '91 – APR '91 Value	% CHANGE APR '90 – APR '91 Units	% CHANGE APR '90 – APR '91 Value	% CHANGE YTD '90 – YTD '91 Units	% CHANGE YTD '90 – YTD '91 Value
Used & Rebuilt & Under $2,500	43.9%	11.6%	9.7%	32.8%	9.2%	21.7%
Boring Machines	-14.6	-15.7	0.0	208.8	30.8	105.8
Drilling Machines	1.9	-48.6	-5.3	-17.6	-15.5	3.0
Gear Cutting Machines	91.7	103.3	-32.4	58.0	-46.2	17.9
Grinding Machines	-5.7	28.8	-30.9	27.4	-22.7	0.9
Horizontal Lathes NC	14.8	-9.8	-0.4	-0.7	-21.5	-10.6
Vertical Lathes NC	66.7	20.2	150.0	145.6	0.0	29.1
Lathes Non-NC	1.6	-35.7	-67.5	-55.1	-41.1	-33.7
Milling Machines	32.0	90.1	-44.8	22.8	-32.6	11.3
Machining Centers	13.2	148.1	-45.1	20.8	-30.8	-9.6
Station Type Machines	280.0	212.2	-53.7	-46.6	-48.2	-37.0
Other Metal Cutting	29.5	10.8	-22.6	48.0	-28.2	2.6
Punching & Shearing Machines	12.4	-17.0	-31.5	12.4	-45.8	-27.4
Bending & Forming Machines	-17.0	-52.0	-42.7	-37.5	-15.9	5.3
Presses	-47.9	471.9	-38.4	440.1	-32.6	251.8
Forging Machines	-13.7	5.6	-36.2	61.0	-46.5	-16.9
Other Metal Forming	-12.3	14.1	24.0	5.1	9.2	21.1
TOTAL	42.2	48.8	7.4	35.5	7.3	6.5

U.S. EXPORTS

Metal Cutting Machine Tools - April 91

RELEASED: July 3, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	43	3181	6	355
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	29	4126	9	1302
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	8	1443	6	1223
100035	Horizontal machining centers, ATC	16	7117	5	1569
100045	Machining centers, n.e.c.	46	6168	13	1629
200010	Unit construction mach. (single station transfer), NC	2	474	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	1955	0	0
300010	Multi-station transfer machines, NC	7	12459	0	0
300090	Multi-station transfer machines, non-NC	6	11869	0	0
8458110010	Horizontal lathes, multiple spindle, NC	10	1884	5	709
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	79	6686	26	2285
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	15	2559	2	258
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	11	2430	5	1456
190030	Horizontal engine or toolroom lathes, non-NC	13	177	0	0
190050	Automatic bar and/or chucking mach., single spindle, non-NC	3	38	3	38
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	24	1180	13	533
190090	Horizontal lathes, n.e.c., non-NC	102	1783	44	716
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	9	703	1	90
991050	Vertical turret lathes, non-NC	19	295	1	10
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	20	929	3	103
8459100000	Way-type unit head machines	1	38	0	0
210080	Other drilling machines, NC	62	4992	7	469
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	11	135	7	110
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	12	574	0	0
290090	Drilling machines, n.e.c., non-NC	283	2634	80	598
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394	1	394
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	3	2580	0	0
310070	Boring-milling machines, n.e.c., NC	10	748	2	142
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	4	137	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	9	303	7	245
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	5	340	0	0
510080	Milling machines, knee type, NC	9	850	5	202
590030	Milling machines, knee type, non-NC	42	1689	7	267
610080	Milling machines, excluding knee type, n.e.c., NC	14	6555	10	5968
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	1	37	1	37
690090	Milling machines, n.e.c., non-NC	73	1771	12	256
700020	Threading or tapping machines, n.e.c., NC	36	1317	8	467
700080	Threading or tapping machines, n.e.c., non-NC	90	2706	25	543
8460110080	Flat surface grinding machines, NC	13	1780	8	936
190010	Flat surface grinding mach., recip.-table type, non-NC	16	203	1	22
190050	Flat surface grinding machines, n.e.c., non-NC	7	901	2	309
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	48	16947	17	5276
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	6	1269	3	297
290030	Grinding machines, internal cylindrical, non-NC	6	209	3	122
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	117	4234	29	691
310080	Sharpening machines (tool & cutter grinding), NC	11	898	3	208
390050	Sharpening machines (tool or cutter grinding), non-NC	357	3587	58	1462
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	160	2018	96	1099
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	1	24	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	362	4055	93	1122
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	67	1692	10	750
200010	Shaping or slotting machines, NC	2	208	0	0
200090	Shaping or slotting machines, non-NC	16	381	4	63
300060	Broaching machines, NC	2	338	2	338
300080	Broaching machines, non-NC	24	971	5	223
401050	Gear hobbers	26	1873	1	34
401070	Gear shapers	2	463	1	54
401090	Gear cutting machines, n.e.c.	27	15986	9	5241
405060	Gear grinding or finishing machines	20	3118	11	1392
500050	Sawing or cutting-off machines, NC	30	1207	10	248
500090	Sawing or cutting-off machines, non-NC	568	6937	154	1982
9000000001	Metal cutting machine tools, n.e.c.	211	9023	42	1548
9800000001	Used or rebuilt machine tools	1931	19860	437	6978
9900000001	Machine tools valued at less than $3,025	13425	7900	3033	1834
	Cutting Total			4346	54204
	Y-T-D Cutting Total	18589	201632		
	NC Y-T-D Cutting Total*	558	90640		

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U.S. EXPORTS
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	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	3	398	0	0	1	131
100025	0	0	0	0	1	132	0	0	1	229
100035	0	0	0	0	2	564	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	380
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	332	2	211
110030	0	0	0	0	4	387	0	0	2	195
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	1	450
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	2	33
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	7	90	5	85
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	13
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	35
290070	0	0	0	0	0	0	0	0	0	0
290090	1	5	0	0	0	0	0	0	23	149
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	44
590030	2	74	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	2	1248
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	37
690090	0	0	0	0	1	26	0	0	2	68
700020	0	0	0	0	2	55	0	0	0	0
700080	0	0	0	0	1	109	0	0	5	44
8460110080	0	0	0	0	0	0	1	420	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	132	1	177
210080	0	0	0	0	0	0	1	333	1	592
290010	0	0	0	0	0	0	0	0	1	167
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	9	69
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	14	185
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	16	0	0	0	0	1	10
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	1	6	14	224
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	3	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	3	48
300060	0	0	0	0	0	0	0	0	2	338
300080	0	0	0	0	0	0	0	0	3	108
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	3	60
500090	0	0	0	0	1	9	0	0	11	109
9000000001	0	0	0	0	0	0	0	0	12	448
9800000001	1	30	1	4	2	5	17	43	74	533
9900000001	46	43	0	0	68	89	42	63	188	209
Month Tot	51	156	2	20	85	1775	71	1419	394	6628
Y-T-D Tot	292	1902	29	467	516	4836	186	3894	1844	21885
NC YTD Tot*	3	954	0	0	30	3569	17	2507	79	12313

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U.S. EXPORTS
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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	4	226	0	0	0	0
8457100015	0	0	0	0	1	143	0	0	0	0
100025	0	0	0	0	0	0	1	427	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	81	0	0	3	186	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	3	821	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	3	83	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	5	342	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	7	31	0	0	0	0	1	5
310010	0	0	0	0	1	394	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	1203	1	625	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	295	4	1798	1	240	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	22	0	0	0	0
290050	0	0	0	0	2	16	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	19	120	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	45	0	0	1	52	40	423	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	2	18	18	205	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	6	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	682	1	579	0	0
405060	0	0	0	0	7	335	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	5	13	232	1	5	2	21
9000000001	0	0	0	0	8	199	3	78	0	0
9800000001	1	9	6	11	48	232	14	82	0	0
9900000001	300	7	155	118	167	118	2	6	0	0
Month Tot	309	2460	176	2607	301	3750	65	1683	3	26
Y-T-D Tot	454	10122	629	7251	1438	29298	289	5645	17	82
NC YTD Tot*	21	5719	20	4686	81	19367	4	1614	1	31

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U.S. EXPORTS
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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	129
8457100015	0	0	0	0	2	280	0	0	0	0
100025	0	0	0	0	1	116	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	290	0	0	0	0	5	322
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	2	166
110030	1	75	0	0	0	0	0	0	2	259
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	5
190070	0	0	10	450	0	0	0	0	0	0
190090	0	0	0	0	1	7	0	0	22	439
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	90
991050	0	0	0	0	0	0	0	0	1	10
995090	0	0	0	0	0	0	0	0	1	28
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	84	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	8
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	3	2	8	0	0	43	386
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	53
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	13
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	1	74	0	0	0	0
590030	0	0	0	0	1	20	0	0	1	42
610080	0	0	0	0	0	0	0	0	1	70
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	3	58	0	0	0	0	5	90
700020	0	0	2	312	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	7	47
8460110080	0	0	2	351	4	139	0	0	0	0
190010	0	0	1	22	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	5	1134	0	0	0	0	1	75
290010	0	0	0	0	0	0	0	0	2	130
290030	0	0	0	0	0	0	0	0	2	101
290050	0	0	4	131	0	0	0	0	8	81
310080	0	0	1	162	0	0	0	0	1	20
390050	0	0	1	55	12	81	1	9	3	14
400060	0	0	0	0	0	0	0	0	0	0
400080	4	58	0	0	37	416	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	4	39	6	118	1	11	0	0	15	152
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	3	663	1	5	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	10	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	34
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	2	1775	0	0	0	0
405060	1	40	1	915	0	0	0	0	1	13
500050	0	0	0	0	0	0	0	0	1	22
500090	0	0	40	563	1	27	0	0	12	106
9000000001	1	230	0	0	1	9	0	0	1	4
9800000001	23	90	4	10	53	1642	1	606	109	1030
9900000001	136	75	158	101	151	100	14	17	464	219
Month Tot	170	607	243	5338	273	4801	16	632	719	4157
Y-T-D Tot	531	6102	2032	17938	1308	13207	25	703	2982	15276
NC YTD Tot*	7	3211	53	5341	23	3936	0	0	54	5656

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U.S. EXPORTS
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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	6	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	240	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	2	40	0	0	1	297
310080	0	0	1	26	0	0	0	0	0	0
390050	2	9	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	3	14	0	0	1	13
900060	0	0	0	0	0	0	0	0	0	0
900080	3	33	0	0	1	11	0	0	2	21
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	105	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	4	100	0	0
500090	16	88	0	0	1	10	1	13	1	4
9000000001	0	0	0	0	0	0	3	46	0	0
9800000001	26	213	11	96	0	0	1	3	3	66
9900000001	24	19	270	137	7	6	12	8	28	32
Month Tot	72	602	283	364	14	81	22	176	36	433
Y-T-D Tot	290	2797	616	1994	73	546	446	2177	620	3179
NC YTD Tot*	5	1129	3	209	1	27	10	1429	3	973

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - April 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	2	351	0	0	0	0	0	0
100025	0	0	1	112	0	0	0	0	1	207
100035	0	0	0	0	0	0	0	0	3	1005
100045	0	0	1	35	0	0	0	0	1	603
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	102	8	525	0	0	1	103	3	371
110050	0	0	0	0	0	0	2	258	0	0
110090	0	0	0	0	0	0	1	185	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	8	89
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	62
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	43	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	58	1	9
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	2	10
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	90	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	6	232
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	3	84
590030	0	0	1	40	0	0	0	0	2	91
610080	0	0	0	0	0	0	0	0	5	2822
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	13
700020	0	0	4	100	0	0	0	0	0	0
700080	0	0	0	0	0	0	5	249	7	94
8460110080	0	0	0	0	0	0	0	0	1	25
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	258	0	0	0	0	1	311
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	41	0	0	2	15	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	2	65	2	908	0	0	2	17
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	22	0	0	0	0	4	30
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	25	0	0	16	193	7	66
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	4	73	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	15	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	54
401090	0	0	0	0	3	1892	0	40	2	274
405060	0	0	0	0	0	0	0	0	1	88
500050	0	0	2	66	0	0	0	0	0	0
500090	0	0	18	209	0	0	0	0	35	582
9000000001	8	479	0	0	0	0	0	0	5	57
9800000001	2	5	17	55	0	0	1	55	22	2158
9900000001	47	8	339	135	0	0	32	44	383	279
Month Tot	58	594	408	2171	5	2800	62	1291	508	9634
Y-T-D Tot	104	1046	1461	8678	26	14235	322	4211	2059	24161
NC YTD Tot*	8	518	60	5272	4	324	12	1243	59	10612

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 91

RELEASED: July 3, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	136	3470	33	384
8462100030	Headers and upsetters, including cold headers	10	4189	1	110
100050	Forging or die stamping machines, and hammers, n.e.c.	52	8695	10	758
210080	Bending, folding, straight. or flat. mach., incl presses, NC	86	10070	24	1474
290030	Press brakes, non-NC	39	1708	10	1134
290040	Bending rolls, non-NC	27	769	9	87
290050	Bending, folding, straight., or flat., n.e.c., non-NC	305	10720	77	2135
310080	Shearing machines, NC	26	1949	8	399
390050	Shearing machines, non-NC	110	3145	13	155
410080	Punching or notching mach., incl. comb. punch & shear, NC	42	7337	16	1888
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	251	6718	120	2153
910060	Hydraulic presses, NC	8	388	2	18
910090	Hydraulic presses, non-NC	217	4580	48	1125
990030	Presses, n.e.c., NC	71	3894	43	1391
990040	Presses, mechanical, non-NC	75	6223	8	1572
990060	Presses, n.e.c., non-NC	314	10177	67	3157
8463100080	Draw benches for bars, tubes, profiles, wire or the like	69	2617	17	379
200080	Thread rolling machines	20	579	5	220
300080	Machines for working wire	273	7872	95	2187
900080	Metal forming machine tools, n.e.c.	419	23767	158	11379
9800000002	Used or rebuilt machine tools	1060	18133	293	5297
9900000002	Machine tools valued at less than $3,025	5438	4417	1509	1225
	Forming Total			2566	38627
	Y-T-D Forming Total	9048	141420		
	NC Y-T-D Forming Total	233	23639		
	Cutting and Forming Totals:				
	Monthly Total			6912	92831
	Y-T-D Total	27637	343052		
	NC Y-T-D Total*	791	114279		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	221544	0	55734
2000000000	Parts for working rubber or plastics - heading 8477	0	92060	0	24053
2710003070	Quenching or cutting oils	0	1987	0	592
8428900010	Industrial robots for lifting, handling, loading or unload	218	1433	10	194
8431390090	Parts industrial robots, handling and loading - heading 8428	0	32159	0	9317
8456100000	Laser, light or photon beam for working any material	219	11383	45	1816
200000	Ultrasonic process for working any material	23	520	7	173
8477106010	Injection molding mach., for rubber or oth. thermosetting	65	4618	21	1624
106070	Injection molding machines, for thermoplastics	131	15407	45	6065
200005	Extruders; rubber or other thermosetting mat., single screw	38	2770	11	837
200015	Extruders; rubber or thermosetting, other incl. multi. screw	42	4067	11	1063
200030	Extruders; thermoplastics, single screw	131	5070	14	850
200060	Extruders; thermoplastics, other incl. multi. screw	42	5675	8	275
300000	Blow molding machines	230	11055	26	1557
400000	Vacuum-molding and other thermoforming machines	357	1891	47	552
510010	Machines for molding or retreading pneumatic tires	1495	5213	484	1932
510090	Machines for molding or otherwise forming inner tubes	189	5798	38	671
590000	Machines for molding or otherwise forming n.e.c.	495	6473	131	2836
800000	Machines for working rubber or plastics n.e.c.	1592	25093	307	4552
8479899040	Industrial robots, n.e.c.	1674	20924	355	4875
908040	Industrial robot parts	0	10992	0	1882
8537100030	Numerical controls for controlling machine tools	535	7605	121	1673
9024100000	Machines and appliances for testing metals	0	23252	0	8094
9031100000	Machines for balancing mechanical parts	0	7781	0	1766
300000	Profile projectors	0	1843	0	357
9032810040	Industrial process control instr., hydraulic or pneumatic	346404	14960	94906	3344

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	31
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	35	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	262
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	3	27
290050	14	102	0	0	0	0	1	164	20	291
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	2	21
410080	1	118	0	0	0	0	0	0	5	607
490050	4	53	0	0	2	145	0	0	16	135
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	213	0	0	2	168
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	2	101	0	0	0	0	1	13
990060	0	0	0	0	0	0	0	0	4	50
8463100080	0	0	0	0	0	0	0	0	1	58
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	2	68	11	132
900080	1	16	0	0	2	55	2	15	18	242
9800000002	2	23	0	0	0	0	1	15	37	1043
9900000002	30	27	3	3	28	10	36	32	206	182
Month Tot	52	338	5	104	35	458	42	294	329	3263
Y-T-D Tot	115	1131	8	188	171	610	101	2524	1038	18366
NC YTD Tot	1	118	0	0	0	0	4	552	30	4908
C&F Month	103	494	7	124	120	2233	113	1713	723	9891
C&F Y-T-D	407	3032	37	655	687	5446	287	6418	2882	40251
C&F NC YTD*	4	1072	0	0	30	3569	21	3059	109	17221

Other Manufacturing Technology

1000000000	0	935	0	159	0	869	0	1145	0	9772
2000000000	0	353	0	1238	0	1222	0	473	0	5722
2710003070	0	21	0	0	0	133	0	0	0	149
8428900010	0	0	0	0	1	20	1	11	0	0
8431390090	0	442	0	0	0	4	0	108	0	754
8456100000	2	65	0	0	1	16	0	0	2	41
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	12	810	4	469
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	8	1001
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	1	57
400000	1	50	0	0	0	0	0	0	5	151
510010	0	0	0	0	21	41	1	32	1	13
510090	0	0	0	0	0	0	3	36	0	0
590000	1	6	1	61	14	219	0	0	0	0
800000	6	45	0	0	0	0	0	0	72	877
8479899040	0	0	0	0	0	0	0	0	260	3238
908040	0	3	0	0	0	0	0	0	0	711
8537100030	0	0	0	0	5	75	1	16	11	133
9024100000	0	3	0	0	0	72	0	15	0	730
9031100000	0	82	0	0	0	0	0	98	0	1007
300000	0	0	0	0	0	18	0	0	0	14
9032810040	132	10	104	13	903	45	4	5	1959	219

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	7	0	0	3	24	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	168	0	0	0	0
210080	11	473	0	0	1	35	0	0	0	0
290030	0	0	0	0	0	0	0	0	10	1134
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	9	4	233	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	122	0	0	0	0	0	0
490050	10	123	0	0	3	156	0	0	27	335
910060	1	9	0	0	0	0	0	0	0	0
910090	0	0	5	51	0	0	0	0	0	0
990030	0	0	19	900	0	0	0	0	0	0
990040	0	0	1	375	0	0	0	0	0	0
990060	0	0	2	555	7	1369	0	0	0	0
8463100080	2	10	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	31	9	164	18	482	0	0	0	0
900080	3	682	16	4225	4	702	4	96	3	67
9800000002	0	0	5	120	0	0	0	0	0	0
9900000002	0	0	38	32	67	58	0	0	0	0
Month Tot	29	1327	98	6560	105	3202	7	120	40	1537
Y-T-D Tot	74	5176	295	8786	673	13362	47	649	71	1945
NC YTD Tot	15	1430	29	1685	17	1510	1	140	0	0
C&F Month	338	3787	274	9167	406	6952	72	1803	43	1562
C&F Y-T-D	528	15299	924	16037	2111	42660	336	6294	88	2027
C&F NC YTD*	36	7149	49	6371	98	20878	5	1754	1	31

Other Manufacturing Technology

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	770	0	3372	0	5832	0	305	0	24
2000000000	0	41	0	385	0	1202	0	609	0	658
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	4	52	0	0	0	0	0	0
8431390090	0	69	0	191	0	304	0	3	0	356
8456100000	0	0	0	0	1	13	0	0	0	0
200000	0	0	3	97	0	0	0	0	0	0
8477106010	1	165	0	0	1	50	0	0	0	0
106070	0	0	1	190	3	344	0	0	0	0
200005	0	0	0	0	1	66	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	1	22	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	4	358	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	22	63	0	0	18	451	0	0
510090	0	0	0	0	0	0	4	437	0	0
590000	0	0	1	51	2	26	2	33	0	0
800000	0	0	0	0	1	12	30	475	0	0
8479899040	1	85	51	307	18	366	0	0	0	0
908040	0	29	0	53	0	96	0	0	0	0
8537100030	1	15	23	318	17	248	0	0	0	0
9024100000	0	444	0	105	0	748	0	51	0	0
9031100000	0	4	0	0	0	29	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
9032810040	401	26	1712	94	4845	301	491	32	95	5

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	2	51
8462100030	0	0	0	0	1	110	0	0	0	0
100050	0	0	0	0	1	130	0	0	0	0
210080	0	0	0	0	2	90	0	0	1	25
290030	0	0	0	0	0	0	0	0	0	0
290040	6	60	0	0	0	0	0	0	0	0
290050	0	0	7	423	0	0	0	0	14	295
310080	0	0	5	240	0	0	0	0	0	0
390050	0	0	0	0	3	17	0	0	7	107
410080	0	0	1	42	0	0	0	0	2	291
490050	2	146	0	0	0	0	0	0	27	271
910060	0	0	0	0	0	0	0	0	1	9
910090	0	0	0	0	1	24	0	0	27	214
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	135	0	0	0	0	1	693
990060	1	30	11	473	2	15	0	0	26	276
8463100080	0	0	2	38	0	0	0	0	1	18
200080	0	0	2	60	0	0	0	0	1	76
300080	0	0	1	28	3	83	0	0	16	181
900080	0	0	3	62	7	228	0	0	12	156
9800000002	0	0	0	0	12	448	0	0	97	1002
9900000002	6	6	86	46	21	18	13	13	203	199
Month Tot	15	242	119	1547	53	1162	13	13	438	3866
Y-T-D Tot	111	2393	631	14474	265	7219	53	652	1951	16513
NC YTD Tot	2	251	19	3242	9	956	0	0	22	1937
C&F Month	185	849	362	6885	326	5963	29	645	1157	8023
C&F Y-T-D	642	8495	2663	32412	1573	20426	78	1354	4933	31789
C&F NC YTD*	9	3462	72	8584	32	4892	0	0	76	7593

Other Manufacturing Technology

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1137	0	4158	0	1073	0	611	0	4395
2000000000	0	485	0	888	0	1061	0	122	0	1526
2710003070	0	0	0	24	0	10	0	0	0	29
8428900010	0	0	2	49	0	0	0	0	1	51
8431390090	0	9	0	141	0	41	0	0	0	608
8456100000	1	29	16	1110	0	0	0	0	2	45
200000	1	31	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	18	1154
106070	0	0	0	0	10	3292	1	102	3	244
200005	0	0	1	149	0	0	0	0	8	238
200015	0	0	0	0	0	0	0	0	0	0
200030	1	15	0	0	4	300	0	0	0	0
200060	3	80	0	0	0	0	0	0	4	181
300000	3	219	0	0	0	0	0	0	2	32
400000	0	0	0	0	12	106	0	0	28	241
510010	7	181	0	0	0	0	0	0	37	760
510090	0	0	1	4	0	0	0	0	2	87
590000	34	644	3	173	1	11	0	0	24	283
800000	2	38	1	13	13	198	0	0	43	863
8479899040	6	100	2	13	0	0	0	0	2	172
908040	0	155	0	177	0	247	0	0	0	173
8537100030	2	20	5	81	5	65	0	0	2	16
9024100000	0	222	0	1705	0	1930	0	34	0	601
9031100000	0	0	0	21	0	124	0	10	0	198
300000	0	18	0	53	0	62	0	0	0	0
9032810040	2350	179	3392	267	3504	198	0	0	1798	150

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	24	262
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	4	234	0	0	0	0	0	0
210080	0	0	0	0	1	55	2	106	1	83
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	15	1	6	0	0	0	0	6	198
310080	1	59	2	99	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	10
410080	3	318	0	0	0	0	1	75	0	0
490050	0	0	1	8	0	0	10	126	1	7
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	68	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	2	43
8463100080	0	0	0	0	1	24	3	87	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	13	0	0	1	26	1	4	0	0
900080	24	1821	10	251	0	0	0	0	0	0
9800000002	0	0	1	17	5	4	0	0	0	732
9900000002	357	291	0	0	12	10	58	38	11	9
Month Tot	387	2516	19	614	22	187	75	436	46	1344
Y-T-D Tot	545	5037	166	2602	39	538	168	1045	149	3608
NC YTD Tot	10	1148	10	692	1	55	3	181	3	133
C&F Month	459	3118	302	978	36	268	97	611	82	1776
C&F Y-T-D	835	7834	782	4596	112	1084	614	3221	769	6787
C&F NC YTD*	15	2277	13	901	2	82	13	1610	6	1106

Other Manufacturing Technology

1000000000	0	1164	0	1293	0	537	0	533	0	669
2000000000	0	751	0	245	0	609	0	90	0	126
2710003070	0	0	0	53	0	0	0	11	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	99	0	223	0	49	0	0	0	0
8456100000	0	0	3	74	0	0	0	0	9	229
200000	0	0	1	17	1	16	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	2	126	0	0	0	0	3	105	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	3	62	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	1	14	0	0
300000	1	25	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	8	107	0	0	0	0
510090	1	7	5	4	0	0	0	0	0	0
590000	2	29	0	0	2	27	0	0	9	108
800000	4	19	1	13	0	0	1	24	0	0
8479899040	1	9	0	0	0	0	3	76	1	348
908040	0	3	0	21	0	0	0	36	0	0
8537100030	0	0	1	12	1	8	1	12	0	0
9024100000	0	22	0	27	0	89	0	14	0	113
9031100000	0	7	0	55	0	0	0	0	0	0
300000	0	111	0	21	0	0	0	0	0	28
9032810040	6504	345	3295	181	4137	246	403	20	176	17

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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Metal Forming	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	8
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	135	0	0	0	0	1	57
210080	0	0	0	0	0	0	0	0	4	346
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	8	400
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	2	315	0	0	0	0	0	0
490050	10	161	3	144	0	0	0	0	4	343
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	2	182	0	0	4	119	3	87
990030	0	0	24	491	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	2	254
990060	0	0	12	346	0	0	0	0	0	0
8463100080	2	13	5	131	0	0	0	0	0	0
200080	0	0	1	23	0	0	0	0	1	61
300080	0	0	5	206	0	0	1	15	24	755
900080	1	77	26	1289	0	0	1	35	21	1361
9800000002	9	12	3	46	0	0	0	0	121	1838
9900000002	37	19	68	70	0	0	35	15	194	147
Month Tot	59	281	153	3377	0	0	41	184	384	5656
Y-T-D Tot	113	1889	620	10009	0	0	76	535	1568	22169
NC YTD Tot	4	670	35	1339	0	0	0	0	18	2691
C&F Month	117	875	561	5548	5	2800	103	1475	892	15290
C&F Y-T-D	217	2936	2081	18687	26	14235	398	4746	3627	46330
C&F NC YTD*	12	1187	95	6611	4	324	12	1243	77	13303

Other Manufacturing Technology

1000000000	0	663	0	5623	0	82	0	1830	0	8782
2000000000	0	169	0	1900	0	0	0	708	0	3471
2710003070	0	0	0	13	0	0	0	4	0	145
8428900010	0	0	0	0	0	0	0	0	1	11
8431390090	0	2025	0	422	0	0	0	1558	0	1910
8456100000	0	0	1	33	0	0	0	0	7	163
200000	1	12	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	255
106070	0	0	2	84	0	0	3	198	1	100
200005	0	0	0	0	0	0	0	0	1	384
200015	0	0	0	0	0	0	0	0	0	0
200030	1	139	4	256	0	0	0	0	3	118
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	2	266	0	0	0	0	13	599
400000	0	0	0	0	0	0	0	0	1	4
510010	0	0	0	0	0	0	0	0	369	284
510090	0	0	0	0	0	0	0	0	22	96
590000	0	0	12	914	0	0	0	0	23	250
800000	2	25	33	1114	0	0	0	0	98	836
8479899040	0	0	5	103	0	0	4	25	1	33
908040	0	10	0	77	0	0	0	0	0	90
8537100030	0	0	37	530	0	0	0	0	9	125
9024100000	0	27	0	571	0	0	0	15	0	556
9031100000	0	39	0	6	0	0	0	0	0	87
300000	0	0	0	6	0	0	0	0	0	26
9032810040	46110	168	3385	258	146	23	2	4	9058	536

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	104	25	2	24	106	49
Finland	1	9	5	171	6	181
Greece	0	0	0	0	0	0
Hungary	1	311	1	15	2	326
Iceland	0	0	0	0	0	0
Ireland	7	1288	22	1152	29	2441
Luxembourg	0	0	0	0	0	0
Norway	5	49	0	0	5	49
Poland	0	0	0	0	0	0
Portugal	7	4	1	88	8	92
Romania	0	0	0	0	0	0
Sweden	11	74	13	319	24	393
Turkey	22	237	18	358	40	595
Yugoslavia	0	0	0	0	0	0
Oth Europe	1	4	0	0	1	4
TOTAL	1414	16590	957	19209	2371	35799
NORTH AND CENTRAL AMERICA						
Bahamas	12	43	0	0	12	43
Barbados	0	0	3	61	3	61
Belize	4	4	0	0	4	4
Bermuda	0	0	0	0	0	0
Costa Rica	14	320	0	0	14	320
Dominican Rep	0	0	0	0	0	0
El Salvador	1	8	0	0	1	8
Guatemala	7	141	4	86	11	227
Haiti	0	0	0	0	0	0
Honduras	10	17	24	230	34	247
Jamaica	1	8	0	0	1	8
Panama	0	0	4	3	4	3
Trinidad	1	63	0	0	1	63
Oth N & C Am.	16	13	1	57	17	70
TOTAL	1179	11402	803	7567	1982	18969
SOUTH AMERICA						
Argentina	3	2780	77	1185	80	3965
Bolivia	0	0	0	0	0	0
Chile	15	199	25	54	40	253
Colombia	12	405	14	506	26	911
Ecuador	0	0	5	10	5	10
Paraguay	0	0	0	0	0	0
Peru	6	262	0	0	6	262
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	169	6357	204	2232	373	8589
OCEANIA						
New Zealand	4	92	2	61	6	153
Oth Oceania	0	0	1	36	1	36
TOTAL	55	248	55	435	110	683

U.S. EXPORTS
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	48	9	0	0	48	9
Hong Kong	78	147	57	34	135	180
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	13	153	6	216	19	369
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	1	10	0	0	1	10
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	26	0	0	1	26
Philippines	6	11	4	84	10	95
Qatar	6	9	0	0	6	9
Saudi Arabia	4	608	13	454	17	1062
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	67	1	67
United Arab Emr	5	13	1	61	6	74
Vietnam	0	0	0	0	0	0
Oth Asia	26	17	0	0	26	17
TOTAL	1474	17333	467	8860	1941	26193
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	30	2070	2	28	32	2099
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	1	4	1	4
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	1	8	1	8	2	17
South Africa	20	111	75	78	95	189
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	1	205	1	205
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	4	85	0	0	4	85
TOTAL	55	2275	80	324	135	2599

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - April 91

RELEASED: July 3, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	228	18226	68	6628
301050	Electro-discharge machines, n.e.c., NC	74	7508	14	1475
301070	Electro-discharge machines, n.e.c., non-NC	152	1347	15	256
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	542	46538	114	9932
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	37	6156	8	961
100035	Horizontal machining centers, ATC	181	40277	44	9979
100045	Machining centers, n.e.c.	101	45729	23	38293
200010	Unit construction mach. (single station transfer), NC	18	3059	9	2419
200090	Unit construction mach. (single station transfer), non-NC	4	939	3	721
300010	Multi-station transfer machines, NC	3	1768	0	0
300090	Multi-station transfer machines, non-NC	16	5974	7	1236
8458110010	Horizontal lathes, multiple spindle, NC	96	15932	35	5032
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	672	51992	194	12875
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	142	20812	43	6403
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	23	8466	8	1221
190030	Horizontal engine or toolroom lathes, non-NC	1148	10893	216	2197
190050	Automatic bar and/or chucking mach., single spindle, non-NC	151	4423	32	1324
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	10	1582	0	0
190090	Horizontal lathes, n.e.c., non-NC	237	5019	48	672
911060	Vertical turret lathes, multiple spindle, NC	3	550	0	0
911080	Vertical turret lathes, n.e.c., NC	18	3851	12	2720
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887	2	777
915070	Vertical lathes, excluding VTL's, n.e.c., NC	14	2881	1	76
991050	Vertical turret lathes, non-NC	43	504	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	102	2741	21	342
8459100000	Way-type unit head machines	1	58	0	0
210080	Other drilling machines, NC	126	9322	27	1351
290040	Drilling machines, multiple spindle, non-NC	9	1004	2	31
290050	Drilling machines, radial, non-NC	94	1000	28	308
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	33	148	27	89
290090	Drilling machines, n.e.c., non-NC	158	4661	23	1185
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	6	2924	3	1858
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	42	7204	17	2719
310070	Boring-milling machines, n.e.c., NC	11	1763	1	329
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	23	2344	4	339
400040	Boring machines, vertical, NC	4	326	1	73
400050	Boring machines, vertical, non-NC	19	469	0	0
400070	Boring machines, n.e.c., NC	11	1207	0	0
400080	Boring machines, n.e.c., non-NC	126	2066	21	305
510080	Milling machines, knee type, NC	198	3573	20	1419
590030	Milling machines, knee type, non-NC	680	6239	189	1523
610080	Milling machines, excluding knee type, n.e.c., NC	189	13745	80	2393
690050	Milling machines, profile, dup., or die sinking, non-NC	13	141	4	15
690070	Milling machines, bed type, non-NC	14	445	0	0
690090	Milling machines, n.e.c., non-NC	192	5844	37	4100
700020	Threading or tapping machines, n.e.c., NC	64	4304	15	885
700080	Threading or tapping machines, n.e.c., non-NC	41	1562	26	1011
8460110080	Flat surface grinding machines, NC	50	4645	32	3068
190010	Flat surface grinding mach., recip.-table type, non-NC	163	2742	42	847
190050	Flat surface grinding machines, n.e.c., non-NC	415	5705	74	1970
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	196	32790	55	10668
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	154	3670	23	963
290030	Grinding machines, internal cylindrical, non-NC	88	2287	30	912
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	316	12204	101	4991
310080	Sharpening machines (tool & cutter grinding), NC	49	2084	13	455
390050	Sharpening machines (tool or cutter grinding), non-NC	232	2754	20	264
400060	Honing or lapping machines, NC	14	1428	0	0
400080	Honing or lapping machines, non-NC	58	3338	18	1081
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	26	811	6	49
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	414	13373	95	1558
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	37	0	0
200010	Shaping or slotting machines, NC	2	298	1	85
200090	Shaping or slotting machines, non-NC	17	1954	7	572
300060	Broaching machines, NC	3	119	1	23
300080	Broaching machines, non-NC	6	3092	2	2657
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	42	7106	9	1878
401040	Gear shapers	22	2301	2	33
401060	Gear cutting machines, n.e.c.	18	2214	3	27
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	16	8062	9	4681
500050	Sawing or cutting-off machines, NC	50	6827	2	332
500090	Sawing or cutting-off machines, non-NC	504	8808	153	2879
9000000001	Metal cutting machine tools, n.e.c.	101	5284	25	1786
9800000001	Used or rebuilt machine tools	903	16883	132	3963
9900000001	Machine tools valued at less than $3,025	314935	29666	90122	8251
	Cutting Total			92419	179466
	Y-T-D Cutting Total	324883	561434		
	NC Y-T-D Cutting Total	3219	370859		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	1	80
8457100015	0	0	0	0	1	9	0	0	6	887
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	503
100045	0	0	0	0	2	20	0	0	13	36991
200010	0	0	0	0	0	0	0	0	1	1761
200090	0	0	0	0	0	0	0	0	2	634
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	300	0	0	0	0
8458110010	0	0	8	1104	0	0	0	0	5	1400
110030	0	0	0	0	0	0	0	0	2	159
110050	0	0	0	0	0	0	2	448	0	0
110090	0	0	0	0	0	0	0	0	1	248
190030	0	0	58	581	0	0	1	11	0	0
190050	0	0	0	0	0	0	0	0	4	646
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	20	145	0	0	0	0	1	6
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	8	983	1	1019
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	2	12	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	355
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	4	52	1	144	0	0	3	312
310010	0	0	0	0	0	0	0	0	2	1783
310040	0	0	0	0	0	0	0	0	5	2413
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	164
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	24	14	263	5	18
510080	0	0	0	0	0	0	0	0	2	8
590030	0	0	0	0	0	0	0	0	3	46
610080	0	0	0	0	0	0	1	164	5	574
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	12	820
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	29	2561
190010	0	0	0	0	0	0	0	0	1	264
190050	0	0	0	0	0	0	0	0	5	111
210080	0	0	0	0	1	233	0	0	15	2314
290010	0	0	0	0	6	30	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	11	23	1	5	13	493
310080	0	0	0	0	0	0	0	0	5	103
390050	0	0	0	0	2	6	0	0	1	103
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	251
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	4	6	21	22	364
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	85
200090	0	0	0	0	4	30	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	8	1836
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	6	3320
500050	0	0	0	0	0	0	0	0	2	332
500090	0	0	0	0	36	355	3	14	23	1183
9000000001	0	0	0	0	5	38	0	0	10	1244
9800000001	0	0	2	24	20	189	1	37	17	1045
9900000001	2	3	0	0	169	39	10	7	70	151
Month Tot	2	3	94	1918	262	1445	47	1952	310	66589
Y-T-D Tot	14	1030	174	3100	782	6063	639	6529	3670	128748
NC YTD Tot	0	0	12	1495	21	547	22	2650	260	88764

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	56	4955	0	0	0	0	0	0
301050	0	0	11	1167	0	0	0	0	0	0
301070	0	0	3	80	0	0	0	0	0	0
8457100015	0	0	64	6015	0	0	4	261	0	0
100025	0	0	2	428	0	0	0	0	0	0
100035	0	0	38	8674	1	68	0	0	0	0
100045	0	0	1	87	0	0	0	0	0	0
200010	0	0	6	315	2	342	0	0	0	0
200090	0	0	1	87	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	18	2296	2	108	0	0	0	0
110030	0	0	124	10245	12	633	0	0	0	0
110050	0	0	38	5519	1	102	0	0	1	124
110090	0	0	7	973	0	0	0	0	0	0
190030	0	0	0	0	28	270	11	140	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	12	226	0	0	0	0	1	87
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	3	719	0	0	0	0	0	0
915050	0	0	1	409	0	0	0	0	0	0
915070	0	0	1	76	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	4	200	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	24	996	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	77	1	20	0	0	0	0
290070	0	0	3	12	0	0	0	0	0	0
290090	0	0	1	534	0	0	0	0	12	114
310010	0	0	1	75	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	329	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	168
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	1	1100	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	24	142	1058
610080	1	347	9	641	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	3	2923	0	0	0	0	6	237
700020	0	0	15	885	0	0	0	0	0	0
700080	0	0	6	832	0	0	0	0	0	0
8460110080	0	0	1	425	0	0	0	0	0	0
190010	0	0	4	296	0	0	22	220	0	0
190050	1	107	0	0	0	0	0	0	2	398
210080	0	0	31	4396	0	0	0	0	0	0
290010	0	0	6	408	0	0	0	0	1	40
290030	0	0	2	164	0	0	0	0	0	0
290050	4	783	32	3529	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	2	13	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	11	763	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	12	284	0	0	0	0	2	258
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	3	542	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	88	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	2	121	40	869	0	0	0	0	4	44
9000000001	0	0	4	128	0	0	0	0	1	5
9800000001	3	230	19	630	0	0	2	203	1	2
9900000001	10305	753	6317	885	3675	330	108	18	0	0
Month Tot	10319	2683	6934	63755	3726	2073	148	866	174	2535
Y-T-D Tot	16553	11717	21882	257966	8691	6403	436	3346	868	8776
NC YTD Tot	23	4698	1880	213597	54	3570	18	1128	135	1025

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - April 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	11	1665	1	7	0	0	0	0
301050	0	0	3	308	0	0	0	0	0	0
301070	0	0	0	0	9	71	0	0	2	25
8457100015	0	0	0	0	9	712	23	1758	7	291
100025	0	0	0	0	6	533	0	0	0	0
100035	0	0	1	111	1	145	1	478	0	0
100045	1	416	1	382	0	0	2	153	3	244
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	3	568	0	0	0	0	3	368
8458110010	0	0	0	0	2	124	0	0	0	0
110030	0	0	2	283	17	1080	0	0	37	476
110050	0	0	0	0	0	0	1	209	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	40	391	9	144	69	660
190050	0	0	2	284	22	170	4	224	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	6	139	8	68
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	1	368	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	8	27	0	0	7	104
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	2	31	0	0	0	0	0	0
290050	0	0	0	0	12	105	0	0	13	106
290070	24	77	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	15	1	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	12	306
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	2	7	0	0
400040	0	0	0	0	0	0	0	0	1	73
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	13	130	4	181	0	0
590030	0	0	0	0	39	260	0	0	4	134
610080	0	0	1	108	34	327	1	111	28	121
690050	0	0	0	0	4	15	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	46	14	74	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	8	24	0	0	3	119	9	36
8460110080	0	0	1	60	0	0	1	22	0	0
190010	0	0	0	0	15	67	0	0	0	0
190050	3	902	0	0	50	335	1	22	12	95
210080	1	412	4	407	0	0	3	2907	0	0
290010	0	0	4	329	2	18	4	138	0	0
290030	0	0	1	428	0	0	0	0	27	320
290050	0	0	1	2	6	60	32	91	1	5
310080	0	0	7	258	0	0	0	0	1	93
390050	0	0	3	29	0	0	11	83	1	31
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	5	67	0	0
900060	0	0	0	0	0	0	0	0	6	49
900080	0	0	2	193	2	40	23	91	25	303
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	23
300080	0	0	0	0	0	0	1	2569	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	42
401040	0	0	0	0	0	0	0	0	2	33
401060	0	0	0	0	0	0	2	3	1	25
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	2	1357	0	0	1	4	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	18	119	0	0	27	173
9000000001	0	0	1	324	2	39	0	0	2	7
9800000001	4	39	7	828	11	54	37	499	8	183
9900000001	125	123	6	13	58183	5091	47	88	11105	751
Month Tot	159	2336	75	8036	58520	9994	225	10122	11424	5158
Y-T-D Tot	1115	8013	390	24782	236829	40447	752	31753	32088	22759
NC YTD Tot	8	3253	94	13543	339	12065	125	18232	228	6293

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 91

RELEASED: July 3, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	86	12653	16	1430
8462100030	Headers and upsetters, including cold headers	33	6310	15	2794
100050	Forging or die stamping machines, and hammers, n.e.c.	168	13487	29	3492
210080	Bending, folding, straight. or flat. mach., incl presses, NC	165	14105	41	1873
290030	Press brakes, non-NC	82	2768	20	544
290040	Bending rolls, non-NC	28	863	2	12
290050	Bending, folding, straight., or flat., n.e.c., non-NC	366	9696	59	1520
310080	Shearing machines, NC	8	1033	3	411
390050	Shearing machines, non-NC	131	4571	32	835
410080	Punching or notching mach., incl. comb. punch & shear, NC	49	8003	9	2035
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	127	3494	56	1148
910060	Hydraulic presses, NC	8	5082	1	263
910090	Hydraulic presses, non-NC	470	8242	40	1268
990030	Presses, n.e.c., NC	0	0	0	0
990035	Mechanical transfer presses, non-NC	5	51088	3	37389
990045	Mechanical presses, n.e.c., non-NC	32	12040	5	10731
990060	Presses, n.e.c., non-NC	122	9259	36	1793
8463100080	Draw benches for bars, tubes, profiles, wire or the like	72	5910	12	1215
200080	Thread rolling machines	26	1001	10	132
300080	Machines for working wire	436	22822	137	7364
900080	Metal forming machine tools, n.e.c.	416	12892	68	3562
9800000002	Used or rebuilt machine tools	1947	11817	103	3633
9900000002	Machine tools valued at less than $3,025	4163	1661	1485	486
	Forming Total			2182	83932
	Y-T-D Forming Total	8940	218796		
	NC Y-T-D Forming Total	230	28223		
	Cutting and Forming Totals:				
	Monthly Total			94601	263398
	Y-T-D Total	333823	780229		
	NC Y-T-D Total	3449	399082		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	185444	0	48760
2000000000	Parts for working rubber or plastics - heading 8477	0	118207	0	32202
2710003070	Quenching or cutting oils	0	118	0	13
8428900010	Industrial robots for lifting, handling, loading or unload	619	9920	167	2697
8431390080	Parts industrial robots, handling and loading - heading 8428	0	33440	0	9264
8456101010	Laser, light or photon beam for working metal, NC	45	9182	13	2321
101020	Laser, light or photon beam for working metal, non-NC	27	4900	6	384
105000	Laser, light or photon beam for other materials	27	3603	8	1433
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	14	99	2	6
205000	Ultrasonic processes for working other materials	26	154	0	0
8477103000	Injection molding mach., for manufacturing shoes	4	413	1	60
106010	Injection molding mach., for rubber or oth. thermosetting	292	33372	54	6584
106050	Injection molding mach., for thermoplastics	743	74102	245	23458
200005	Extruders; rubber or other thermosetting mat., single screw	11	3209	7	1901
200015	Extruders; rubber or thermosetting, other incl. multi. screw	64	7882	7	549
200035	Extruders; thermoplastics, single screw, less than 6.4cm	30	581	16	289
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	33	4363	2	85
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	10	848	5	294
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	47	7092	13	4329
300000	Blow molding machines	75	16401	39	5841
400000	Vacuum-molding and other thermoforming machines	59	4276	14	445
510010	Machines for molding or retreading pneumatic tires	168	8865	37	726
510090	Machines for molding or otherwise forming inner tubes	36	2511	8	1382
590000	Machines for molding or otherwise forming n.e.c.	175	13467	35	1683
800000	Machines for working rubber or plastics n.e.c.	742	62378	211	9918
8479899040	Industrial robots, n.e.c.	1360	49799	345	16263
908040	Industrial robot parts	0	12879	0	3709
8537100030	Numerical controls for controlling machine tools	2610	12006	738	2854
9024100000	Machines and appliances for testing metals	0	4620	0	1632
9031100000	Machines for balancing mechanical parts	0	1209	0	676
300000	Profile projectors	0	2243	0	514
9032810020	Industrial process control instr., hydraulic	47289	1545	10545	757
810060	Industrial process control instr., pneumatic	61227	1933	3977	320

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 91

Metal Forming	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	5	351	0	0	0	0
8462100030	0	0	0	0	7	12	0	0	0	0
100050	0	0	0	0	2	83	0	0	7	1290
210080	0	0	0	0	2	41	0	0	1	300
290030	1	27	0	0	17	509	0	0	0	0
290040	0	0	0	0	1	6	0	0	0	0
290050	0	0	0	0	6	70	0	0	8	227
310080	0	0	0	0	0	0	0	0	0	0
390050	7	163	0	0	5	166	0	0	0	0
410080	0	0	0	0	0	0	0	0	2	221
490050	0	0	0	0	2	24	0	0	30	285
910060	0	0	0	0	0	0	0	0	1	263
910090	0	0	0	0	6	901	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	2	18629	0	0	0	0	0	0
990045	0	0	0	0	1	74	0	0	0	0
990060	0	0	0	0	18	583	6	116	4	561
8463100080	4	446	0	0	4	526	0	0	4	243
200080	0	0	0	0	0	0	0	0	6	109
300080	3	145	1	51	5	1050	0	0	12	779
900080	0	0	0	0	5	121	18	95	4	2461
9800000002	2	45	0	0	57	429	0	0	3	152
9900000002	0	0	0	0	23	21	10	19	17	13
Month Tot	17	826	3	18680	166	4967	34	231	99	6905
Y-T-D Tot	80	3597	7	19219	742	17761	76	940	663	33227
NC YTD Tot	1	561	0	0	18	2229	2	44	26	7805
C&F Month	19	829	97	20598	428	6411	81	2183	409	73494
C&F Y-T-D	94	4628	181	22319	1524	23824	715	7469	4333	161975
C&F NC YTD	1	561	12	1495	39	2777	24	2694	286	96569
Other Manufacturing Technology										
1000000000	0	223	0	119	0	3933	0	1438	0	11552
2000000000	0	105	0	13	0	5247	0	3433	0	11657
2710003070	0	0	0	0	0	5	0	0	0	0
8428900010	0	0	0	0	2	30	0	0	3	148
8431390080	0	0	0	4	0	1841	0	240	0	628
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	6	384
105000	0	0	0	0	1	73	0	0	1	542
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	3	404	6	908	7	1411
106050	0	0	0	0	42	5877	1	27	56	1452
200005	0	0	0	0	0	0	0	0	5	1860
200015	0	0	0	0	0	0	0	0	3	325
200035	0	0	0	0	2	75	0	0	0	0
200045	0	0	0	0	2	85	0	0	0	0
200055	0	0	0	0	0	0	0	0	4	171
200065	0	0	0	0	4	61	0	0	4	635
300000	0	0	0	0	1	56	2	2102	6	949
400000	0	0	0	0	1	3	0	0	1	31
510010	0	0	0	0	13	643	0	0	0	0
510090	0	0	2	32	0	0	0	0	0	0
590000	0	0	0	0	4	39	0	0	4	585
800000	3	61	0	0	16	151	3	534	54	2296
8479899040	0	0	0	0	2	65	0	0	6	759
908040	0	0	0	0	0	13	0	6	0	1081
8537100030	0	0	0	0	1	2	0	0	1	7
9024100000	0	0	0	3	0	47	0	0	0	431
9031100000	0	0	0	0	0	0	0	0	0	2
300000	0	0	0	5	0	0	0	0	0	10
9032810020	100	516	0	0	0	0	0	0	12	14
810060	0	0	0	0	14	3	0	0	32	6

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	10	1062	0	0	0	0	0	0
8462100030	4	957	2	747	0	0	0	0	0	0
100050	0	0	13	896	0	0	0	0	0	0
210080	15	80	17	1302	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	23	22	748	0	0	0	0	1	4
310080	0	0	1	358	0	0	0	0	0	0
390050	1	4	13	355	0	0	0	0	0	0
410080	0	0	4	665	0	0	0	0	0	0
490050	17	674	1	47	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	14	5	1	36	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	18760	0	0	0	0	0	0
990045	1	110	2	10538	0	0	0	0	0	0
990060	2	19	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	16	428	86	4018	0	0	0	0	0	0
900080	1	128	6	107	0	0	0	0	0	0
9800000002	2	11	18	2559	2	80	0	0	0	0
9900000002	1	2	119	13	0	0	0	0	31	25
Month Tot	78	2442	316	42213	2	80	0	0	32	29
Y-T-D Tot	345	12645	1520	101513	11	363	1	300	195	1045
NC YTD Tot	20	725	129	12425	0	0	0	0	0	0
C&F Month	10397	5125	7250	105968	3728	2153	148	866	206	2564
C&F Y-T-D	16898	24362	23402	359479	8702	6767	437	3647	1063	9821
C&F NC YTD	43	5423	2009	226021	54	3570	18	1128	135	1025

Other Manufacturing Technology

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1978	0	14766	0	49	0	444	0	195
2000000000	0	661	0	6841	0	52	0	97	0	12
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	149	1913	0	0	0	0	0	0
8431390080	0	71	0	4621	0	0	0	0	0	0
8456101010	0	0	10	1679	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	2	6	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	60	0	0	0	0	0	0	0	0
106010	0	0	25	2732	1	88	0	0	0	0
106050	20	1537	75	10093	1	18	7	57	1	4
200005	0	0	1	35	0	0	0	0	0	0
200015	0	0	4	224	0	0	0	0	0	0
200035	1	109	0	0	1	4	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	1	123	0	0	0	0	0	0	0	0
200065	0	0	4	3557	0	0	0	0	0	0
300000	3	428	10	2021	0	0	0	0	0	0
400000	1	122	1	277	0	0	0	0	0	0
510010	0	0	2	35	0	0	0	0	0	0
510090	5	275	1	1076	0	0	0	0	0	0
590000	1	3	2	52	0	0	0	0	0	0
800000	7	122	42	4532	4	11	11	126	0	0
8479899040	0	0	271	14268	0	0	1	55	0	0
908040	0	74	0	1792	0	0	0	0	0	0
8537100030	1	6	735	2840	0	0	0	0	0	0
9024100000	0	38	0	648	0	0	0	0	0	0
9031100000	0	2	0	635	0	28	0	0	0	0
300000	0	0	0	147	0	0	0	0	0	0
9032810020	0	0	2	43	840	5	0	0	0	0
810060	450	60	109	110	2500	8	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
April 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	17	0	0
8462100030	0	0	0	0	0	0	2	1078	0	0
100050	0	0	0	0	0	0	3	50	4	1173
210080	1	89	0	0	0	0	0	0	5	61
290030	0	0	0	0	0	0	2	8	0	0
290040	1	6	0	0	0	0	0	0	0	0
290050	10	203	0	0	0	0	5	140	3	103
310080	2	53	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	5	145	1	3
410080	0	0	1	238	0	0	0	0	2	911
490050	3	53	3	65	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	259	1	15	16	2	0	0	1	50
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	1	9	0	0
990060	0	0	0	0	3	94	2	402	1	17
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	4	23
300080	0	0	1	628	0	0	11	155	2	109
900080	0	0	18	104	4	16	11	125	1	405
9800000002	0	0	1	204	0	0	7	31	11	123
9900000002	2	2	43	42	624	188	20	48	595	112
Month Tot	20	665	68	1296	647	300	70	2208	630	3090
Y-T-D Tot	78	5688	401	7104	2386	2535	1510	6468	925	6390
NC YTD Tot	8	1684	6	350	0	0	1	186	19	2213
C&F Month	179	3001	143	9333	59167	10293	295	12330	12054	8248
C&F Y-T-D	1193	13701	791	31886	239215	42982	2262	38222	33013	29149
C&F NC YTD	16	4937	100	13893	339	12065	126	18418	247	8506
Other Manufacturing Technology										
1000000000	0	1850	0	3382	0	1643	0	4192	0	2995
2000000000	0	128	0	1056	0	446	0	730	0	1723
2710003070	0	0	0	0	0	8	0	0	0	0
8428900010	3	162	2	112	0	0	3	129	5	205
8431390080	0	46	0	88	0	31	0	665	0	1029
8456101010	0	0	3	642	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	4	10	2	807
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	5	696	5	171	1	39	1	134
106050	0	0	5	386	4	81	1	7	32	3919
200005	0	0	0	0	0	0	0	0	1	6
200015	0	0	0	0	0	0	0	0	0	0
200035	0	0	0	0	0	0	12	100	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	1	76	0	0	0	0
300000	0	0	0	0	9	67	7	124	1	94
400000	0	0	0	0	0	0	10	11	0	0
510010	0	0	0	0	0	0	5	36	17	12
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	1	496	3	55	2	155	18	299
800000	0	0	6	323	11	359	15	521	39	882
8479899040	5	221	2	577	0	0	5	65	53	251
908040	0	97	0	62	0	0	0	135	0	448
8537100030	0	0	0	0	0	0	0	0	0	0
9024100000	0	214	0	13	0	0	0	206	0	33
9031100000	0	0	0	4	0	0	0	5	0	0
300000	0	0	0	3	0	0	0	349	0	0
9032810020	11	12	180	12	0	0	0	0	9400	154
810060	843	124	0	0	0	0	29	9	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	170	568	2	29	172	596
Bulgaria	1	16	0	0	1	16
Czechoslovakia	9	164	2	56	11	220
Denmark	30	272	5	244	35	517
Finland	22	133	50	1061	72	1195
Hungary	4	139	0	0	4	139
Ireland	18	6	0	0	18	6
Luxembourg	2	37	0	0	2	37
Netherlands	12	351	15	427	27	778
Norway	1	26	0	0	1	26
Poland	23	483	0	0	23	483
Portugal	10	82	0	0	10	82
Romania	1	73	0	0	1	73
USSR	1	12	1	17	2	30
Yugoslavia	44	528	2	1160	46	1688
Oth Europe	1	2	0	0	1	2
TOTAL	11660	97148	495	17597	12155	114745
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	3	6	3	6
Oth N & C Am.	0	0	1	1	1	1
TOTAL	262	1445	170	4974	432	6419
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	[illegible]	0	0
Peru	0	0	0	[illegible]	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	94	1918	3	18680	97	20598
OCEANIA						
Australia	4	123	0	0	4	123
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	4	123	0	0	4	123

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
April 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	10295	1325	541	63	10836	1388
Hong Kong	752	65	8	25	760	90
India	9	198	0	0	9	198
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	4	246	0	0	4	246
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	7	291	0	0	7	291
Oth Asia	0	0	0	0	0	0
TOTAL	80395	78814	1514	42681	81909	121495
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	4	18	0	0	4	18
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	4	18	0	0	4	18

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

A 8610-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 83-91 August 7, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – MAY 1991

(Values in Millions of U.S. Dollars)

	May 1991	Apr. 1991	Average Feb.-Apr.	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 53.1	$ 54.2	$ 52.7	$254.8	$263.3	(3.2%)
Imports	$153.5	$179.5	$141.0	$715.0	$705.7	1.3%
Balance	($100.4)	($125.3)	($ 88.3)	($460.2)	($442.4)	4.0%
METAL FORMING MACHINE TOOLS						
Exports	$ 49.9	$ 38.6	$ 36.4	$191.3	$197.0	(2.9%)
Imports	$ 40.7	$ 83.9	$ 56.2	$259.5	$187.0	38.8%
Balance	$ 9.2	($ 45.3)	($ 19.8)	($ 68.2)	$ 10.0	NM
MACHINE TOOL TOTAL						
Exports	$103.0	$ 92.8	$ 89.0	$446.1	$460.3	(3.1%)
Imports	$194.2	$263.4	$197.1	$974.5	$892.7	9.2%
Balance	($ 91.2)	($170.6)	($108.1)	($528.4)	($432.4)	22.2%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 34.4	$ 31.5	$ 31.1	$148.7	$152.7	(2.6%)
Imports	$111.7	$129.4	$102.3	$510.8	$487.6	4.8%
Balance	($ 77.3)	($ 97.9)	($ 71.2)	($362.1)	($334.9)	8.1%
OTHER MANUFACTURING TECHNOLOGY						
Exports	$152.3	$136.7	$133.4	$693.9	$764.9	(9.3%)
Imports	$178.5	$181.3	$169.5	$869.5	$839.9	3.5%
Balance	($ 26.2)	($ 44.6)	($ 36.1)	($175.6)	($ 75.0)	134.1%

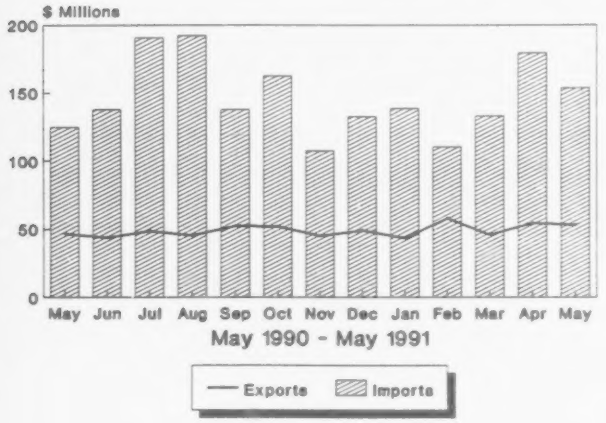
Note: Numerically controlled machine tools is a subgroup of the machine tool total. ( ) denotes negative. NM = not meaningful. Individual items may not add up to totals due to rounding.

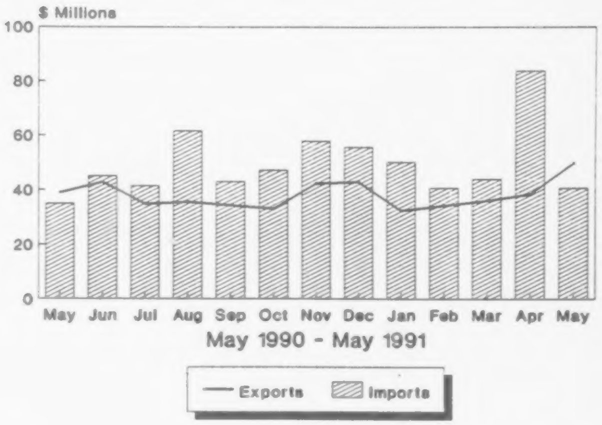
- U.S. machine tool exports rose to $103.0 million in May, up 11% over April and equal to the second highest monthly total since 1981. Exports of NC machines totalled $34.4 million in May, up from $31.5 million in April.

- Machine tool imports fell 26% in May from April's record high to $194.2 million.

- Year-to-date exports of $446.1 million are 3% lower than last year; year-to-date imports of $974.5 million are up 9%.

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING


METAL FORMING

METAL CUTTING MACHINE TOOLS

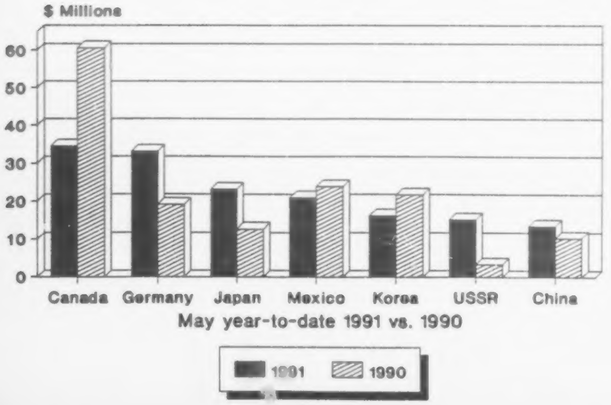
Exports

- Exports of metal cutting machines in May of $53.1 million were slightly lower than April's $54.2 million. Exports of grinding machines fell to $9.2 million in May from $11.5 million in April; exports of machining centers remained steady in May at $5.7 million.

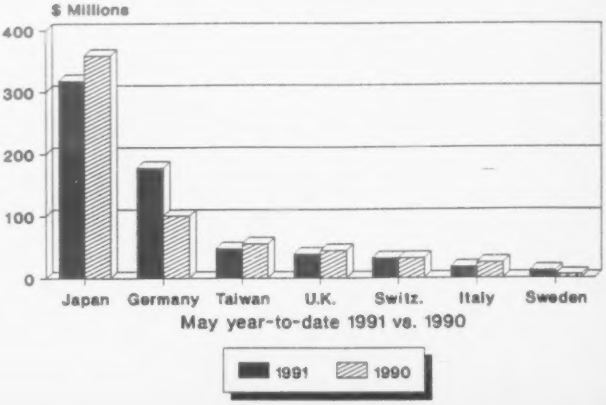
- Year-to-date exports of gear cutting machines (114 machines, $28.0 million) are up 18% in unit terms and 65% in value terms over 1990; exports so far in 1991 of drilling machines are down 2% in unit terms but up 24% in value terms.

- Exports to Canada totalled $12.6 million in May, more than double the next highest country (Mexico, $5.7 million). Canada overtook Germany in May to become the year-to-date export leader at $34.5 million. U.S. metal cutting exports to Canada are down 43% from last year. Year-to-date exports to Germany ($33.1 million) are 74% higher than 1990.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports of metal cutting machines in May fell to $153.5 million from $179.5 million in April. Year-to-date imports of $715.0 million are up from $705.7 million at this time last year.

- Japan remained the largest import source in 1991 through May at $317.8 million, down 11% from last year. Imports are also down from, among others, Singapore (56%), Brazil (47%), Canada (33%) and Italy (29%).

- Year-to-date imports of NC horizontal lathes reached $117.9 million in 1991 through May, compared to $135.5 million in 1990. Imports of non-NC lathes stood at $35.4 million in 1991 through May, versus $46.8 million last year.

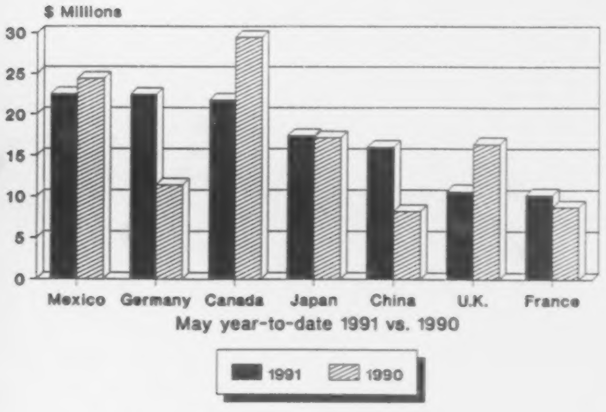
METAL FORMING MACHINE TOOLS

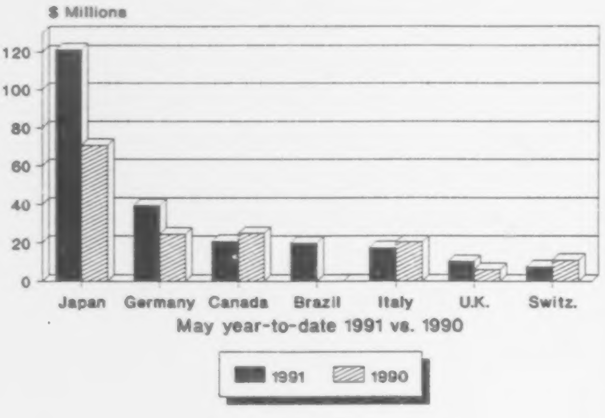
Exports

- Exports of metal forming machines jumped to $49.9 million in May, the highest monthly total ever. Year-to-date exports of metal forming machines are $191.3 million, down 3% from last year.

- China was the top export market in May at $10.8 million, followed by Germany ($9.1 million) and Mexico ($6.0 million). Mexico became the top year-to-date export market at $22.5 million, followed by Germany ($22.4 million), Canada ($21.7 million) and Japan ($17.4 million).

- Exports of presses in May totalled $6.1 million, down from $7.3 million in April. Year-to-date exports reached $31.4 million, down 35% from last year.


LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES


LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES

Imports

- Imports of metal forming machines plummeted to $40.7 million in May from April's $83.9 million. For the first time since May 1990 imports trailed exports. Year-to-date imports were $259.5 million, up 39% from 1990. Imports from Japan were up 71%; imports from Germany were up 61%.

- Imports of presses in May fell to $9.7 million from $51.4 million in April. Average monthly imports of presses so far in 1991, excluding April: $11.0 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of other manufacturing technology rose to $152.3 million in May, up from $136.7 million in April. Year-to-date exports ($693.9 million) are 9% lower than last year. Machine tool parts and accessories account for 39.8% ($276.0 million) of the 1991 total.

- Year-to-date exports of numerical controls for controlling machine tools reached $9.6 million in May, down from $13.3 million last year. Exports of industrial process control instruments were $21.2 million in 1991 through May, up from $16.3 million last year at this time.

Imports

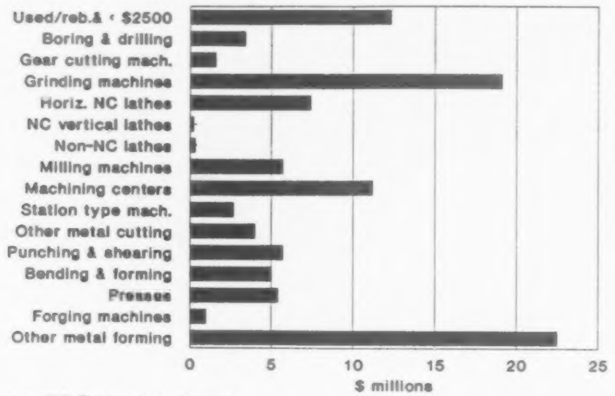
- Year-to-date imports of other manufacturing technology fell slightly in May to $178.5 million for a year-to-date total of $869.5 million, up 3.5% over last year. Imports of machine tool parts and accessories account for $233.4 million (26.8%) of the total.

- Imports of injection molding machines so far in 1991 are $139.6 million. The comparable figure for 1990: $140.3 million.

MONTHLY FOCUS

Including May's $14.1 million, U.S. machine tool exports to China so far in 1991 totalled $29.4 million, making China the fifth largest U.S. machine tool export market. Cumulative U.S. machine tool exports to China from January 1989 through May 1991 were $107.4 million. Of this total, the catch-all "other metal forming machines" accounted for $22.5 million, followed by grinding machines ($19.1 million), machining centers ($11.2 million) and NC horizontal lathes ($7.4 million). U.S. machine tool exports to China peaked at $50.5 million in 1986. If exports continue at the current pace, U.S. exports will exceed $70 million in 1991.

U.S. Machine Tool Exports to China
January 1989 - May 1991



Source: U.S. Bureau of the Census

1991 EXPORTS

METAL CUTTING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Canada	12,619,650	6,628,334	90.4%	34,505,029	60,691,325	-43.1%
Germany	3,792,815	3,749,927	1.1%	33,090,639	19,036,473	73.8%
Japan	5,145,053	5,338,128	-3.6%	23,082,953	12,633,133	82.7%
Mexico	5,662,626	4,156,659	36.2%	20,938,279	23,850,673	-12.2%
South Korea	2,979,701	4,801,299	-37.9%	16,187,084	21,724,961	-25.5%
USSR	961,957	2,799,932	-65.6%	15,196,490	3,241,319	368.8%
China	3,281,521	2,460,381	33.4%	13,403,995	10,198,765	31.4%
United Kingdom	3,089,947	2,170,675	42.3%	11,768,003	26,864,613	-56.2%
France	2,456,665	2,607,023	-5.8%	9,707,346	4,674,558	107.7%
Italy	402,436	607,256	-33.7%	6,504,754	6,556,459	-0.8%
India	56,043	1,683,009	-96.7%	5,700,612	8,964,724	-36.4%
Belgium	737,289	1,774,931	-58.5%	5,573,171	11,026,441	-49.5%
Venezuela	1,150,280	1,291,276	-10.9%	5,361,519	3,213,626	66.8%
Brazil	807,238	1,418,759	-43.1%	4,701,124	7,442,155	-36.8%
Taiwan	1,263,538	432,565	192.1%	4,442,812	3,252,423	36.6%
Netherlands	217,498	602,068	-63.9%	3,014,106	2,277,196	32.4%
Singapore	874,912	363,765	140.5%	2,869,274	3,179,975	-9.8%
Switzerland	418,552	175,851	138.0%	2,595,202	2,374,551	9.3%
Australia	122,228	156,199	-21.7%	2,023,899	9,706,833	-79.1%
Thailand	536,601	594,045	-9.7%	1,582,976	1,052,922	50.3%
Malaysia	623,253	631,727	-1.3%	1,325,781	462,855	186.4%
Indonesia	1,212,769	25,626	4,632.6%	1,294,474	115,636	1019.4%
Spain	442,891	80,827	447.9%	989,245	2,161,696	-54.2%
Austria	26,028	20,118	29.4%	493,514	181,199	172.4%

METAL FORMING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Mexico	5,984,291	3,866,382	54.8%	22,497,730	24,343,364	-7.6%
Germany	9,060,429	3,201,711	183.0	22,422,571	11,432,079	96.1
Canada	3,382,214	3,262,558	3.7	21,747,722	29,430,889	-26.1
Japan	2,924,556	1,547,174	89.0	17,398,578	17,155,133	1.4
China	10,819,650	1,327,070	715.3	15,996,099	8,183,427	95.5
United Kingdom	632,977	3,377,446	-81.3	10,641,734	16,383,296	-35.0
France	1,429,585	6,560,321	-78.2	10,216,002	8,742,634	16.9
South Korea	2,894,408	1,161,672	149.2	10,113,066	16,872,027	-40.1
Netherlands	798,133	2,516,223	-68.3	5,835,527	3,267,069	78.6
Taiwan	540,478	1,343,620	-59.8	4,148,019	7,701,095	-46.1
Italy	1,478,970	241,660	512.0	3,872,035	5,231,564	-26.0
Indonesia	1,384,349	1,536,777	-9.9	3,329,686	31,164	10,584.4
Singapore	395,468	613,801	-35.6	2,997,507	2,787,099	7.5
Brazil	227,425	293,804	-22.6	2,751,463	2,293,445	20.0
Thailand	377,686	281,051	34.4	2,266,967	746,890	203.5
Australia	242,963	338,178	-28.2	1,373,650	2,833,803	-51.5
Switzerland	142,699	435,529	-67.2	1,187,315	1,010,039	17.6
Venezuela	282,609	184,131	53.5	817,329	525,886	55.4
Malaysia	158,579	13,473	1,077.0	810,141	1,710,512	-52.6
Belgium	183,096	457,632	-60.0	793,494	1,673,495	-52.6
Spain	200,575	186,714	7.4	738,502	1,641,701	-55.0
India	28,327	120,279	-76.4	677,633	5,098,996	-86.7
Austria	0	104,055	-100.0	187,657	1,603,022	-88.3
USSR	0	0	NA	0	611,615	-100.0

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Canada	16,001,864	9,890,892	61.8%	56,252,751	90,122,214	-37.6%
Germany	12,853,244	6,951,638	84.9%	55,513,210	30,468,552	82.2%
Mexico	11,646,917	8,023,041	45.2%	43,436,009	48,194,037	-9.9%
Japan	8,069,609	6,885,302	17.2%	40,481,531	29,788,266	35.9%
China	14,101,171	3,787,451	272.3%	29,400,094	18,382,192	59.9%
South Korea	5,874,109	5,962,971	-1.5%	26,300,150	38,596,988	-31.9%
United Kingdom	3,722,924	5,548,121	-32.9%	22,409,737	43,247,909	-48.2%
France	3,886,250	9,167,344	-57.6%	19,923,348	13,417,192	48.5%
USSR	961,957	2,799,932	-65.6%	15,196,490	3,852,934	294.4%
Italy	1,881,406	848,916	121.6%	10,376,789	11,788,023	-12.0%
Netherlands	1,015,631	3,118,291	-67.4%	8,849,633	5,544,265	59.6%
Taiwan	1,804,016	1,776,185	1.6%	8,590,831	10,953,518	-21.6%
Brazil	1,034,663	1,712,563	-39.6%	7,452,587	9,735,600	-23.5%
India	84,370	1,803,288	-95.3%	6,378,245	14,063,720	-54.6%
Belgium	920,385	2,232,563	-58.8%	6,366,665	12,699,936	-49.9%
Venezuela	1,432,889	1,475,407	-2.9%	6,178,848	3,739,512	65.2%
Singapore	1,270,380	977,566	30.0%	5,866,781	5,967,074	-1.7%
Indonesia	2,597,118	1,562,403	66.2%	4,624,160	146,800	3,050.0%
Thailand	914,287	875,096	4.5%	3,849,943	1,799,812	113.9%
Switzerland	561,251	611,380	-8.2%	3,782,517	3,384,590	11.8%
Australia	365,191	494,377	-26.1%	3,397,549	12,540,636	-72.9%
Malaysia	781,832	645,200	21.2%	2,135,922	2,173,367	-1.7%
Spain	643,466	267,541	140.5%	1,727,747	3,803,397	-54.6%
Austria	26,028	124,173	-79.0%	681,171	1,784,221	-61.8%

1991 IMPORTS

METAL CUTTING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Japan	59,785,295	63,755,298	-6.2%	317,750,842	357,873,023	-11.2%
Germany	48,972,489	66,588,829	-26.5%	177,720,894	100,308,023	77.2%
Taiwan	7,151,921	9,993,711	-28.4%	47,598,447	55,424,161	-14.1%
United Kingdom	7,116,379	10,122,039	-29.7%	38,869,777	44,156,830	-12.0%
Switzerland	7,098,549	8,036,492	-11.7%	31,880,482	31,590,295	0.9%
Italy	5,793,204	2,683,335	115.9%	17,510,018	24,812,999	-29.4%
Sweden	3,448,836	2,336,186	47.6%	11,461,611	4,769,496	140.3%
Spain	1,191,046	2,535,203	-53.0%	9,966,997	10,194,733	-2.2%
France	2,428,213	1,951,606	24.4%	8,957,188	10,598,737	-15.5%
South Korea	1,075,367	2,073,165	-48.1%	7,478,567	8,627,474	-13.3%
Canada	1,166,177	1,444,655	-19.3%	7,229,594	10,740,595	-32.7%
Singapore	979,116	866,473	13.0%	4,325,435	9,747,448	-55.6%
Brazil	631,862	1,918,042	-67.1%	3,732,272	7,058,092	-47.1%
Belgium	262,697	2,853	9107.7%	1,293,172	940,740	37.5%

METAL FORMING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Japan	19,523,303	42,213,010	-53.8%	121,036,262	70,796,091	71.0%
Germany	6,126,987	6,905,138	-11.3%	39,353,827	24,432,490	61.1%
Canada	2,976,333	4,966,621	-40.1%	20,737,313	24,850,558	-16.6%
Brazil	478,052	18,679,897	-97.4%	19,696,889	0	NA
Italy	4,593,392	2,441,848	88.1%	17,238,427	20,246,247	-14.9%
United Kingdom	3,713,159	2,207,825	68.2%	10,181,375	5,888,426	72.9%
Switzerland	267,196	1,296,434	-79.4%	7,370,948	10,822,236	-31.9%
Sweden	580,889	665,006	-12.6%	6,268,985	3,577,088	75.3%
Belgium	866,650	826,021	4.9%	4,464,138	11,748,729	-62.0%
Taiwan	431,340	299,561	44.0%	2,966,626	4,575,758	-35.2%
Spain	211,416	29,223	623.5%	1,256,159	2,290,240	-45.2%
France	51,591	231,053	-77.7%	991,754	970,688	2.2%
South Korea	0	80,276	-100.0%	363,335	123,692	193.7%
Singapore	0	0	NA	300,254	53,105	465.4%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	MAY	APRIL	% CHANGE	MAY YTD'91	MAY YTD'90	% CHANGE
Japan	79,308,598	105,968,308	-25.2%	438,787,104	428,669,114	2.4%
Germany	55,099,476	73,493,967	-25.0%	217,074,721	124,740,513	74.0%
Taiwan	7,583,261	10,293,272	-26.3%	50,565,073	59,999,919	-15.7%
United Kingdom	10,829,538	12,329,864	-12.2%	49,051,152	50,045,256	-2.0%
Switzerland	7,365,745	9,332,926	-21.1%	39,251,430	42,412,531	-7.5%
Italy	10,386,596	5,125,183	102.7%	34,748,445	45,059,246	-22.9%
Canada	4,142,510	6,411,276	-35.4%	27,966,907	35,591,153	-21.4%
Brazil	1,109,914	20,597,939	-94.6%	23,429,161	7,058,092	231.9%
Sweden	4,029,725	3,001,192	34.3%	17,730,596	8,346,584	112.4%
Spain	1,402,462	2,564,426	-45.3%	11,223,156	12,484,973	-10.1%
France	2,479,804	2,182,659	13.6%	9,948,942	11,569,425	-14.0%
South Korea	1,075,367	2,153,441	-50.1%	7,841,902	8,751,166	-10.4%
Belgium	1,129,347	828,874	36.3%	5,757,310	12,689,469	-54.6%
Singapore	979,116	866,473	13.0%	4,625,689	9,800,553	-52.8%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	5,272	15,333,596
Boring Machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling Machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear Cutting Machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding Machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
Horizontal Lathes NC	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
Vertical Lathes NC	1	161,310	2	341,835	6	371,174	1	89,700
Lathes Non-NC	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling Machines	21	1,285,651	27	1,255,940	56	1,629,636	35	6,730,275
Machining Centers	18	2,251,834	27	4,69[illegible],366	21	6,179,301	33	5,723,799
Station Type Machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other Metal Cutting	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & Shearing Machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & Forming Machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging Machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other Metal Forming	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	MAY 1991		MAY 1991 YTD		MAY 1990		MAY 1990 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,847	14,473,978	27,701	64,783,928	5,514	13,323,757	23,606	63,391,126
Boring Machines	9	811,684	42	5,346,314	23	2,694,052	65	8,532,901
Drilling Machines	81	1,767,423	449	10,103,514	141	1,391,074	460	8,132,045
Gear Cutting Machines	39	6,598,232	114	28,037,783	16	3,920,375	97	17,026,456
Grinding Machines	285	9,241,644	1,389	45,365,200	234	9,407,118	1,498	58,367,909
Horizontal Lathes NC	19	1,914,295	134	15,473,837	43	4,213,770	195	22,025,858
Vertical Lathes NC	9	592,211	19	1,556,230	4	245,844	30	2,623,358
Lathes Non-NC	45	1,357,057	226	5,759,344	60	1,105,382	307	7,911,217
Milling Machines	57	5,134,958	196	16,037,460	38	1,738,745	222	16,855,360
Machining Centers	37	5,715,931	136	24,570,231	23	4,666,577	198	31,275,949
Station Type Machines	4	3,143,769	24	29,938,839	2	2,487,300	50	20,821,899
Other Metal Cutting	341	8,257,118	1,430	36,217,726	484	5,316,601	1,743	35,447,448
Punching & Shearing Machines	111	5,445,644	540	24,594,544	162	6,578,641	656	30,138,576
Bending & Forming Machines	108	5,331,914	565	28,599,028	142	4,048,283	709	25,189,144
Presses	96	6,098,800	781	31,361,927	287	8,435,990	1,140	48,321,239
Forging Machines	40	4,435,634	102	17,320,492	67	6,501,594	166	20,371,676
Other Metal Forming	223	22,718,552	1,140	61,024,369	324	9,293,053	1,368	43,906,862
TOTAL	7,351	103,038,844	34,988	446,090,766	7,564	85,368,156	32,510	460,339,023

1991 U.S. EXPORTS
BY PRODUCT GROUPS

	% CHANGE APR '91 – MAY '91		% CHANGE MAY '90 – MAY '91		% CHANGE YTD '90 – YTD '91	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	10.9%	-5.6%	6.0%	8.6%	17.3%	2.2%
Boring Machines	-10.0	3.9	-60.9	-69.9	-35.4	-37.3
Drilling Machines	-13.8	50.1	-42.6	27.1	-2.4	24.2
Gear Cutting Machines	77.3	-1.8	143.8	68.3	17.5	64.7
Grinding Machines	-8.9	-19.9	21.8	-1.8	-7.3	-22.3
Horizontal Lathes NC	-50.0	-59.3	-55.8	-54.6	-31.3	-29.7
Vertical Lathes NC	800.0	560.2	125.0	140.9	-36.[illegible]	-40.7
Lathes Non-NC	-29.7	-3.1	-25.0	22.8	-26.4	-27.2
Milling Machines	62.9	-23.7	50.0	195.3	-11.7	-4.9
Machining Centers	12.1	-0.1	60.9	22.5	-31.3	-21.4
Station Type Machines	NA	NA	100.0	26.4	-52.0	43.8
Other Metal Cutting	28.2	26.7	-29.5	55.3	-18.0	2.2
Punching & Shearing Machines	-29.3	18.5	-31.5	-17.2	-17.7	-18.4
Bending & Forming Machines	-10.0	10.4	-23.9	31.7	-20.3	13.5
Presses	-42.9	-16.0	-66.6	-27.7	-31.5	-35.1
Forging Machines	263.6	410.9	-40.3	-31.8	-38.6	-15.0
Other Metal Forming	-27.6	56.2	-31.2	144.5	-16.7	39.0
TOTAL	6.4	11.0	-2.8	20.7	7.6	-3.1

1991 U.S. IMPORTS
BY PRODUCT GROUPS

	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	91,842	16,332,717
Boring Machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling Machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear Cutting Machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding Machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
Horizontal Lathes NC	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
Vertical Lathes NC	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Lathes Non-NC	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling Machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining Centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station Type Machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other Metal Cutting	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & Shearing Machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & Forming Machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging Machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other Metal Forming	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

	MAY 1991		MAY 1991 YTD		MAY 1990		MAY 1990 YTD	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	61,461	13,487,177	383,409	73,513,482	81,467	13,702,955	376,171	63,025,771
Boring Machines	53	7,001,111	295	25,804,388	63	2,378,706	248	11,517,651
Drilling Machines	79	6,287,879	499	22,423,661	105	1,412,575	602	17,084,288
Gear Cutting Machines	91	4,865,147	190	24,596,459	60	1,682,253	244	18,413,118
Grinding Machines	515	14,511,571	2,690	102,343,806	761	22,855,644	3,574	109,890,909
Horizontal Lathes NC	197	20,692,781	1,130	117,894,643	246	26,717,053	1,434	135,493,689
Vertical Lathes NC	2	1,159,139	50	11,327,083	12	2,697,583	60	10,572,341
Lathes Non-NC	442	10,258,079	2,133	35,419,472	684	8,838,746	3,555	46,797,099
Milling Machines	226	5,441,990	1,512	35,429,255	498	6,400,652	2,405	33,351,215
Machining Centers	199	40,498,256	1,060	179,197,688	212	21,375,164	1,456	174,723,155
Station Type Machines	16	13,375,688	58	25,173,609	9	5,207,130	90	23,926,275
Other Metal Cutting	252	18,837,312	1,500	78,204,266	477	14,389,120	2,216	72,282,490
Punching & Shearing Machines	109	4,442,498	424	21,542,827	168	5,567,876	749	29,120,417
Bending & Forming Machines	124	7,388,462	765	34,819,733	245	7,810,331	1,007	33,865,649
Presses	301	9,718,955	938	95,429,880	410	4,231,697	1,355	28,597,728
Forging Machines	152	6,220,779	353	26,017,584	46	3,389,713	422	27,216,350
Other Metal Forming	172	10,036,703	1,208	65,315,130	198	11,187,287	1,147	56,827,213
TOTAL	64,391	194,223,527	398,214	974,452,966	85,661	159,844,485	396,735	892,705,358

1991 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	% CHANGE APR '91 – MAY '91		% CHANGE MAY '90 – MAY '91		% CHANGE YTD '90 – YTD '91	
	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	-33.1%	-17.4%	-24.6%	-1.6%	1.9%	16.6%
Boring Machines	12.8	24.5	-15.9	194.3	19.0	124.0
Drilling Machines	-26.2	112.1	-24.8	345.1	-17.1	31.3
Gear Cutting Machines	295.7	-26.5	51.7	189.2	-22.1	33.6
Grinding Machines	1.2	-45.9	-32.3	-36.5	-24.7	-6.9
Horizontal Lathes NC	-29.6	-19.0	-19.9	-22.5	-21.2	-13.0
Vertical Lathes NC	-86.7	-67.6	-83.3	-57.0	-16.7	7.1
Lathes Non-NC	39.4	126.2	-35.4	16.1	-40.0	-24.3
Milling Machines	-31.5	-42.4	-54.6	-15.0	-37.1	6.2
Machining Centers	5.3	-31.6	-6.1	89.5	-27.2	2.6
Station Type Machines	-15.8	205.6	77.8	156.9	-35.6	5.2
Other Metal Cutting	-23.4	1.3	-47.2	30.9	-32.3	8.2
Punching & Shearing Machines	9.0	0.3	-35.1	-20.2	-43.4	-26.0
Bending & Forming Machines	1.6	87.1	-49.4	-5.4	-24.0	2.8
Presses	254.1	-81.1	-26.6	129.7	-30.8	233.7
Forging Machines	245.5	-1.0	230.4	83.5	-16.4	-4.4
Other Metal Forming	-29.2	-26.8	-13.1	-10.3	5.3	14.9
TOTAL	-31.9	-26.3	-24.8	21.5	0.4	9.2

U.S. EXPORTS
Metal Cutting Machine Tools - May 91

RELEASED:	August 7, 1991	TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	65	4750	22	1569
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	39	5674	10	1548
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	10	2218	2	775
100035	Horizontal machining centers, ATC	19	8284	3	1167
100045	Machining centers, n.e.c.	68	8393	22	2225
200010	Unit construction mach. (single station transfer), NC	2	474	0	0
200090	Unit construction mach. (single station transfer), non-NC	6	2285	2	330
300010	Multi-station transfer machines, NC	8	14559	1	2099
300090	Multi-station transfer machines, non-NC	7	12584	1	715
8458110010	Horizontal lathes, multiple spindle, NC	12	2070	2	186
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	90	7533	11	847
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	19	3143	4	584
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	2728	2	298
190030	Horizontal engine or toolroom lathes, non-NC	15	192	2	16
190050	Automatic bar and/or chucking mach., single spindle, non-NC	10	85	7	46
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	26	1490	2	310
190090	Horizontal lathes, n.e.c., non-NC	116	2236	14	453
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	18	1295	9	592
991050	Vertical turret lathes, non-NC	24	371	5	76
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	35	1385	15	456
8459100000	Way-type unit head machines	1	38	0	0
210080	Other drilling machines, NC	83	6250	21	1258
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	13	246	2	111
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	14	586	2	11
290090	Drilling machines, n.e.c., non-NC	339	3022	56	388
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	2971	1	391
310070	Boring-milling machines, n.e.c., NC	13	918	3	170
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	33	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	4	137	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	12	388	3	85
400070	Boring machines, n.e.c., NC	1	148	1	148
400080	Boring machines, n.e.c., non-NC	6	358	1	17
510080	Milling machines, knee type, NC	11	933	2	83
590030	Milling machines, knee type, non-NC	53	2089	11	399
610080	Milling machines, excluding knee type, n.e.c., NC	30	10525	16	3970
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	1	37	0	0
690090	Milling machines, n.e.c., non-NC	101	2454	28	683
700020	Threading or tapping machines, n.e.c., NC	40	1849	4	532
700080	Threading or tapping machines, n.e.c., non-NC	113	3177	23	472
8460110080	Flat surface grinding machines, NC	15	1887	2	107
190010	Flat surface grinding mach., recip.-table type, non-NC	20	236	4	33
190050	Flat surface grinding machines, n.e.c., non-NC	8	989	1	88
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	61	21302	13	4355
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	8	1407	2	139
290030	Grinding machines, internal cylindrical, non-NC	7	237	1	28
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	145	4976	28	742
310080	Sharpening machines (tool & cutter grinding), NC	13	1215	2	317
390050	Sharpening machines (tool or cutter grinding), non-NC	411	4007	54	421
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	221	3156	61	1139
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77	2	53
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	477	5876	115	1821
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	79	1996	12	305
200010	Shaping or slotting machines, NC	3	223	1	15
200090	Shaping or slotting machines, non-NC	18	431	2	50
300060	Broaching machines, NC	2	338	0	0
300080	Broaching machines, non-NC	25	976	1	5
401050	Gear hobbers	28	1953	2	80
401070	Gear shapers	3	510	1	47
401090	Gear cutting machines, n.e.c.	42	20373	15	4388
405060	Gear grinding or finishing machines	41	5202	21	2083
500050	Sawing or cutting-off machines, NC	36	2001	6	793
500090	Sawing or cutting-off machines, non-NC	717	8608	149	1672
9000000001	Metal cutting machine tools, n.e.c.	332	11868	121	2845
9800000001	Used or rebuilt machine tools	2317	26237	386	6378
9900000001	Machine tools valued at less than $3,025	17103	10132	3678	2232
	Cutting Total			4990	53144
	Y-T-D Cutting Total	23579	254776		
	NC Y-T-D Cutting Total*	782	118806		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	234
8457100015	0	0	0	0	1	167	0	0	1	112
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	624
100045	0	0	0	0	0	0	0	0	8	740
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	2099
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	2	186
110030	0	0	0	0	1	94	0	0	2	138
110050	0	0	0	0	0	0	0	0	2	206
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	6	31
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	4	130
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	51
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	3	67	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	6
290070	0	0	0	0	0	0	0	0	2	11
290090	0	0	0	0	1	149	0	0	40	172
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	391
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	40
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	17
510080	0	0	0	0	0	0	0	0	2	83
590030	2	39	0	0	0	0	0	0	1	33
610080	0	0	0	0	0	0	0	0	12	1553
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	4	383
700020	0	0	0	0	1	29	0	0	0	0
700080	0	0	0	0	1	74	1	100	5	38
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	1352
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	4	127
310080	0	0	0	0	0	0	0	0	2	317
390050	0	0	0	0	0	0	0	0	4	29
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	8	1	18	1	14	0	0	17	210
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	14	1048
500050	0	0	0	0	0	0	0	0	4	751
500090	1	9	0	0	0	0	0	0	14	111
9000000001	0	0	0	0	0	0	8	642	23	228
9800000001	2	37	0	0	0	0	0	0	68	816
9900000001	17	29	21	8	126	143	47	66	317	354
Month Tot	23	122	22	26	135	737	56	807	572	12620
Y-T-D Tot	315	2024	51	494	651	5573	242	4701	2416	34505
NC YTD Tot*	3	954	0	0	36	3926	25	3148	130	21468

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 91

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	16	995	0	0	0	0
8457100015	0	0	1	380	0	0	0	0	0	0
100025	0	0	1	535	0	0	0	0	0	0
100035	1	544	0	0	0	0	0	0	0	0
100045	1	38	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	330	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	2	219	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	5	321	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	18	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	2263	1	83	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	15	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	104	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	317	1	200	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	28	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	2	13	8	60	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	5	106	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	14	673	7	76	2	18	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	5	0	0	0	0
200010	0	0	0	0	1	15	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	5	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	52	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	1	42	1	649	0	0	0	0
405060	0	0	0	0	1	809	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	10	0	0	2	27	0	0	0	0
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	0	0	8	232	22	260	1	10	6	1213
9900000001	0	0	116	80	114	48	17	11	0	0
Month Tot	11	3282	147	2457	185	3793	24	56	6	1213
Y-T-D Tot	465	13404	776	9707	1623	33091	313	5701	23	1294
NC YTD Tot*	27	9294	26	6102	132	22695	4	1614	1	31

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 91

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	1	51	0	0	1	103
8457100015	2	238	0	0	0	0	0	0	2	170
100025	0	0	0	0	0	0	0	0	1	240
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	655	0	0	10	655
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	715	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	2	142
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	298
190030	0	0	0	0	0	0	0	0	2	16
190050	0	0	1	16	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	250
190090	0	0	0	0	0	0	0	0	6	77
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	7	516
991050	0	0	0	0	0	0	0	0	3	52
995090	0	0	0	0	0	0	0	0	12	371
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	164
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	10	42
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	103
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	2	46	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	109	0	0	1	45	1	29
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	3	58	0	0	0	0	17	147
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	51
190010	0	0	0	0	0	0	0	0	2	18
190050	0	0	0	0	0	0	0	0	1	88
210080	0	0	4	1153	0	0	0	0	1	129
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	11	0	0	0	0	6	53
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	59	9	61	2	17	1	4
400060	0	0	0	0	0	0	0	0	0	0
400080	1	23	10	142	12	123	2	350	2	46
900060	0	0	2	53	0	0	0	0	0	0
900080	3	33	1	5	16	156	0	0	10	108
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	5	0	0	0	0	2	24
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	29
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	6	1709	3	924	0	0	1	70
405060	0	0	1	26	1	23	4	178	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	47	475	2	18	1	12	6	74
9000000001	0	0	1	677	1	7	0	0	3	23
9800000001	1	93	5	505	5	196	0	0	162	1153
9900000001	15	15	496	96	78	51	16	22	573	419
Month Tot	22	402	583	5145	130	2980	26	623	852	5663
Y-T-D Tot	553	6505	2615	23083	1438	16187	51	1326	3834	20938
NC YTD Tot*	9	3450	60	6585	25	4641	0	0	88	8483

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - - May 91

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	34
8457100015	0	0	2	346	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	47
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	35
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	217
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	5	144	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	3	503
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	56
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	267	0	0
290010	1	100	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	39
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	4	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	4	71	1	14
900060	0	0	0	0	0	0	0	0	0	0
900080	2	11	3	26	1	10	1	10	2	110
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	5	97	1	5	9	149	0	0	9	146
9000000001	0	0	0	0	0	0	2	23	0	0
9800000001	0	0	57	165	7	274	1	4	0	0
9900000001	11	9	538	189	15	10	100	40	60	64
Month Tot	19	217	606	875	32	443	110	419	83	1264
Y-T-D Tot	309	3014	1222	2869	105	989	556	2595	703	4443
NC YTD Tot*	5	1129	5	555	1	27	11	1696	13	1863

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - May 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	153
8457100015	0	0	1	135	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	91	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	4	254	0	0	0	0	0	0
110050	0	0	1	251	0	0	1	127	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	1	60	0	0	0	0	0	0
190090	0	0	0	0	0	0	2	170	2	76
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	76
991050	0	0	2	24	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	5	283	0	0	0	0	3	206	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	104	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	6	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	2	67
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	1	148	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	1	41	0	0	0	0	1	31
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	13	0	0	0	0	2	67
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	10	0	0	8	130	5	15
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	15
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	2	938	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	39
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	31	0	0	0	0	14	481
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	26	174	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	10	103	4	50	0	0	0	0	10	109
900060	0	0	0	0	0	0	0	0	0	0
900080	1	4	12	127	0	0	12	121	8	84
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	6	113	0	0	1	16	1	141
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	50
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	47
401090	0	0	0	0	2	882	0	0	1	111
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	43
500090	1	23	22	240	0	0	1	20	27	255
9000000001	1	69	11	336	0	0	4	37	67	806
9800000001	2	4	6	58	0	0	14	94	19	1263
9900000001	213	51	253	34	122	80	63	83	350	334
Month Tot	233	537	359	3090	124	962	110	1150	520	4263
Y-T-D Tot	337	1583	1820	11768	150	15196	432	5362	2579	28424
NC YTD Tot*	13	800	80	7315	4	324	17	1724	67	10981

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 91

RELEASED: August 7, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	151	3684	15	214
8462100030	Headers and upsetters, including cold headers	15	5378	5	1189
100050	Forging or die stamping machines, and hammers, n.e.c.	87	11942	35	3247
210080	Bending, folding, straight. or flat. mach., incl presses, NC	104	12866	18	2795
290030	Press brakes, non-NC	53	2106	14	398
290040	Bending rolls, non-NC	32	872	5	103
290050	Bending, folding, straight., or flat., n.e.c., non-NC	376	12756	71	2036
310080	Shearing machines, NC	42	3878	16	1929
390050	Shearing machines, non-NC	131	3550	21	405
410080	Punching or notching mach., incl. comb. punch & shear, NC	52	8659	10	1322
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	315	8508	64	1789
910060	Hydraulic presses, NC	11	464	3	76
910090	Hydraulic presses, non-NC	250	5404	33	823
990030	Presses, n.e.c., NC	73	4023	2	129
990040	Presses, mechanical, non-NC	81	7996	6	1773
990060	Presses, n.e.c., non-NC	366	13475	52	3299
8463100080	Draw benches for bars, tubes, profiles, wire or the like	96	2965	27	348
200080	Thread rolling machines	21	598	1	19
300080	Machines for working wire	317	9954	44	2082
900080	Metal forming machine tools, n.e.c.	555	43822	136	20055
9800000002	Used or rebuilt machine tools	1410	22914	350	4781
9900000002	Machine tools valued at less than $3,025	6871	5500	1433	1083
	Forming Total			2361	49894
	Y-T-D Forming Total	11409	191314		
	NC Y-T-D Forming Total	282	29889		
	Cutting and Forming Totals:				
	Monthly Total			7351	103039
	Y-T-D Total	34988	446091		
	NC Y-T-D Total*	1064	148695		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	276011	0	54468
2000000000	Parts for working rubber or plastics - heading 8477	0	113587	0	21527
2710003070	Quenching or cutting oils	0	2732	0	746
8428900010	Industrial robots for lifting, handling, loading or unload	236	1640	18	207
8431390090	Parts industrial robots, handling and loading - heading 8428	0	41709	0	9549
8456100000	Laser, light or photon beam for working any material	275	17117	56	5733
200000	Ultrasonic process for working any material	32	730	9	210
8477106010	Injection molding mach., for rubber or oth. thermosetting	82	6000	17	1382
106070	Injection molding machines, for thermoplastics	164	20215	33	4808
200005	Extruders; rubber or other thermosetting mat., single screw	45	4019	7	1249
200015	Extruders; rubber or thermosetting, other incl. multi. screw	72	6158	30	2091
200030	Extruders; thermoplastics, single screw	189	8652	58	3582
200060	Extruders; thermoplastics, other incl. multi. screw	50	5926	8	251
300000	Blow molding machines	269	16925	39	5870
400000	Vacuum-molding and other thermoforming machines	426	2772	69	881
510010	Machines for molding or retreading pneumatic tires	1584	6623	89	1410
510090	Machines for molding or otherwise forming inner tubes	275	6929	86	1131
590000	Machines for molding or otherwise forming n.e.c.	811	12350	316	5876
800000	Machines for working rubber or plastics n.e.c.	1912	30733	320	5640
8479899040	Industrial robots, n.e.c.	2257	26257	583	5333
908040	Industrial robot parts	0	15094	0	4102
8537100030	Numerical controls for controlling machine tools	665	9572	130	1967
9024100000	Machines and appliances for testing metals	0	29284	0	6032
9031100000	Machines for balancing mechanical parts	0	9605	0	1824
300000	Profile projectors	0	2042	0	199
9032810040	Industrial process control instr., hydraulic or pneumatic	427047	21220	80643	6260

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	29
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	79	0	0	1	36	0	0	4	582
210080	0	0	0	0	0	0	1	33	3	257
290030	0	0	0	0	0	0	0	0	8	130
290040	0	0	0	0	0	0	0	0	4	91
290050	1	12	0	0	0	0	0	0	19	192
310080	0	0	0	0	0	0	0	0	1	156
390050	0	0	0	0	1	24	0	0	11	261
410080	0	0	0	0	0	0	0	0	1	231
490050	2	85	0	0	0	0	0	0	5	196
910060	0	0	0	0	0	0	0	0	0	0
910090	2	35	0	0	0	0	2	191	0	0
990030	0	0	0	0	0	0	0	0	1	32
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	4	95
8463100080	0	0	0	0	0	0	0	0	1	11
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	4	66
900080	0	0	0	0	0	0	0	0	24	377
9800000002	1	10	0	0	3	123	0	0	43	423
9900000002	22	22	0	0	0	0	4	3	220	253
Month Tot	29	243	0	0	5	183	7	227	354	3382
Y-T-D Tot	144	1374	8	188	176	793	108	2751	1392	21748
NC YTD Tot	1	118	0	0	0	0	5	585	36	5584
C&F Month	52	365	22	26	140	920	63	1035	926	16002
C&F Y-T-D	459	3398	59	681	827	6367	350	7453	3808	56253
C&F NC YTD*	4	1072	0	0	36	3926	30	3734	166	27052

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	661	0	170	0	566	0	703	0	10296
2000000000	0	272	0	105	0	1130	0	455	0	4178
2710003070	0	5	0	0	0	20	0	0	0	138
8428900010	0	0	0	0	0	0	0	0	8	97
8431390090	0	615	0	0	0	16	0	18	0	763
8456100000	0	0	0	0	1	13	0	0	4	405
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	8	2198
200005	0	0	0	0	0	0	0	0	1	38
200015	0	0	0	0	0	0	0	0	10	1310
200030	0	0	3	326	18	457	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	2	824
400000	0	0	0	0	0	0	0	0	4	72
510010	2	50	0	0	0	0	1	29	0	0
510090	0	0	0	0	13	313	0	0	0	0
590000	1	6	0	0	0	0	0	0	1	26
800000	2	26	0	0	0	0	0	0	90	1440
8479899040	0	0	0	0	0	0	0	0	351	2112
908040	0	22	0	0	0	0	0	0	0	996
8537100030	1	9	0	0	0	0	5	75	7	92
9024100000	0	60	0	0	0	26	0	107	0	779
9031100000	0	0	0	0	0	0	0	0	0	1124
300000	0	0	0	0	0	16	0	0	0	22
9032810040	375	65	685	34	1074	97	0	0	3885	307

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	3	1	33	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	117	6	860	12	716	0	0	0	0
210080	0	0	0	0	1	95	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	5	200	5	291	0	0	1	14
310080	0	0	0	0	4	802	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	76	2	317	0	0	0	0
490050	0	0	0	0	2	608	0	0	15	156
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	1	97	0	0	0	0
990040	1	34	0	0	2	54	0	0	1	1214
990060	0	0	5	148	4	959	0	0	0	0
8463100080	0	0	0	0	9	87	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	5	2	1553	0	0	0	0
900080	19	10664	0	0	8	3373	3	28	0	0
9800000002	0	0	2	82	0	0	0	0	0	0
9900000002	21	4	159	58	119	76	0	0	0	0
Month Tot	42	10820	180	1430	172	9060	3	28	17	1384
Y-T-D Tot	116	15996	475	10216	845	22423	50	678	88	3330
NC YTD Tot	15	1430	30	1761	25	2820	1	140	0	0
C&F Month	53	14101	327	3886	357	12853	27	84	23	2597
C&F Y-T-D	581	29400	1251	19923	2468	55513	363	6378	111	4624
C&F NC YTD*	42	10724	56	7863	157	25515	5	1754	1	31

Other Manufacturing Technology

1000000000	0	989	0	2530	0	5299	0	195	0	95
2000000000	0	180	0	971	0	1395	0	73	0	24
2710003070	0	0	0	0	0	0	0	0	0	9
8428900010	0	0	1	3	0	0	0	0	0	0
8431390090	0	5	0	111	0	76	0	0	0	295
8456100000	3	76	3	1110	5	354	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	132	2	135	0	0	0	0
106070	0	0	0	0	1	50	0	0	0	0
200005	0	0	0	0	0	0	1	694	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	3	1058	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	2	2378	2	33	0	0	0	0
400000	23	200	0	0	6	65	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	5	71	2	36	0	0	4	1539
800000	0	0	0	0	27	409	0	0	1	51
8479899040	0	0	27	175	91	1686	2	32	0	0
908040	0	0	0	95	0	143	0	6	0	0
8537100030	1	18	7	110	20	277	0	0	0	0
9024100000	0	60	0	495	0	473	0	4	0	0
9031100000	0	0	0	0	0	3	0	0	0	0
300000	0	0	0	21	0	0	0	0	0	0
9032810040	207	1935	4971	263	2180	144	27	8	154	8

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	8	92	1	24
8462100030	0	0	5	1189	0	0	0	0	0	0
100050	0	0	0	0	1	67	0	0	2	125
210080	0	0	2	86	1	913	1	29	5	1021
290030	0	0	0	0	0	0	0	0	1	19
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	5	142	0	0	7	194
310080	0	0	4	215	0	0	0	0	6	706
390050	0	0	0	0	2	11	2	35	5	74
410080	1	71	0	0	0	0	0	0	1	100
490050	0	0	0	0	4	50	0	0	9	336
910060	0	0	0	0	1	6	0	0	1	29
910090	0	0	1	11	1	95	0	0	13	258
990030	0	0	0	0	0	0	0	0	0	0
990040	1	393	0	0	0	0	0	0	0	0
990060	0	0	4	101	2	615	0	0	17	598
8463100080	0	0	0	0	0	0	0	0	2	49
200080	0	0	0	0	0	0	0	0	0	0
300080	2	52	0	0	0	0	0	0	11	192
900080	0	0	14	1197	4	516	0	0	6	37
9800000002	70	942	2	50	24	374	0	0	164	2031
9900000002	24	21	235	76	136	104	3	3	177	192
Month Tot	98	1479	267	2925	181	2894	14	159	428	5984
Y-T-D Tot	209	3872	898	17399	446	10113	67	810	2379	22498
NC YTD Tot	3	322	25	3543	11	1876	1	29	35	3793
C&F Month	120	1881	850	8070	311	5874	40	782	1280	11647
C&F Y-T-D	762	10377	3513	40482	1884	26300	118	2136	6213	43436
C&F NC YTD*	12	3771	85	10129	36	6517	1	29	123	12276

Other Manufacturing Technology

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1475	0	5662	0	2047	0	426	0	5267
2000000000	0	269	0	1186	0	879	0	103	0	2026
2710003070	0	0	0	73	0	20	0	0	0	74
8428900010	0	0	0	0	0	0	0	0	8	77
8431390090	0	0	0	121	0	556	0	0	0	365
8456100000	1	214	8	1689	1	23	0	0	1	198
200000	0	0	2	36	0	0	0	0	3	71
8477106010	0	0	0	0	1	75	0	0	12	1014
106070	0	0	2	246	0	0	0	0	8	885
200005	0	0	0	0	0	0	0	0	4	484
200015	0	0	0	0	0	0	16	400	2	170
200030	2	623	0	0	0	0	0	0	10	239
200060	0	0	0	0	0	0	4	105	3	127
300000	0	0	1	11	0	0	0	0	6	1675
400000	15	128	13	330	0	0	0	0	5	37
510010	0	0	1	59	0	0	3	83	23	583
510090	0	0	0	0	0	0	0	0	14	86
590000	1	15	68	105	0	0	0	0	2	6
800000	1	3	1	17	0	0	2	150	96	2125
8479899040	2	27	34	202	1	23	0	0	4	125
908040	0	263	0	176	0	8	0	3	0	102
8537100030	10	239	4	62	8	104	2	36	0	0
9024100000	0	136	0	843	0	189	0	11	0	114
9031100000	0	0	0	52	0	95	0	30	0	141
300000	0	0	0	14	0	39	0	0	0	28
9032810040	1544	888	1065	165	2307	208	0	0	1884	115

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	91	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	25	7	215	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	178	0	0	0	0	0	0	2	287
490050	0	0	1	8	1	124	0	0	2	19
910060	0	0	0	0	0	0	0	0	0	0
910090	8	83	0	0	0	0	0	0	5	136
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	1	77
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	4	77	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	14	0	0	0	0	3	69	0	0
900080	19	440	0	0	0	0	4	62	0	0
9800000002	2	27	10	77	0	0	0	0	0	0
9900000002	34	31	5	5	0	0	13	11	22	21
Month Tot	68	798	24	395	5	201	20	143	32	540
Y-T-D Tot	613	5836	190	2998	44	739	188	1187	181	4148
NC YTD Tot	11	1326	10	692	1	55	3	181	5	421
C&F Month	87	1016	630	1270	37	643	130	561	115	1804
C&F Y-T-D	922	8850	1412	5867	149	1728	744	3783	884	8591
C&F NC YTD*	16	2455	15	1247	2	82	14	1877	18	2284

Other Manufacturing Technology

1000000000	0	1177	0	881	0	467	0	586	0	642
2000000000	0	240	0	148	0	232	0	333	0	310
2710003070	0	0	0	3	0	0	0	0	0	11
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	187	0	291	0	0	0	14	0	0
8456100000	1	325	0	0	0	0	0	0	1	600
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	3	138	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	1	33
200015	0	0	0	0	0	0	0	0	0	0
200030	8	203	0	0	0	0	0	0	1	350
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	12	224
400000	0	0	0	0	1	9	0	0	0	0
510010	33	40	0	0	7	141	0	0	0	0
510090	0	0	1	3	0	0	0	0	0	0
590000	2	28	2	32	12	188	3	53	0	0
800000	3	86	27	127	0	0	0	0	2	4
8479899040	0	0	0	0	0	0	23	136	2	229
908040	0	3	0	3	0	0	0	134	0	0
8537100030	1	13	7	112	0	0	1	11	0	0
9024100000	0	614	0	72	0	176	0	156	0	167
9031100000	0	0	0	36	0	0	0	0	0	45
300000	0	0	0	4	0	3	0	26	0	19
9032810040	5482	303	4556	265	3964	211	286	14	348	82

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	3	34
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	6	574
210080	0	0	2	192	0	0	0	0	2	170
290030	0	0	0	0	0	0	0	0	5	249
290040	0	0	0	0	0	0	0	0	1	12
290050	0	0	1	13	0	0	0	0	17	738
310080	1	50	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	1	61
490050	5	33	5	58	0	0	0	0	13	116
910060	0	0	0	0	0	0	1	41	0	0
910090	0	0	0	0	0	0	0	0	1	15
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	5	154	1	15	0	0	0	0	10	615
8463100080	9	73	0	0	0	0	0	0	2	51
200080	0	0	1	19	0	0	0	0	0	0
300080	9	42	3	40	0	0	2	13	6	37
900080	0	0	6	162	0	0	1	29	28	3169
9800000002	0	0	5	77	0	0	7	198	17	367
9900000002	14	26	61	57	0	0	3	3	161	116
Month Tot	43	378	85	633	0	0	14	283	273	6325
Y-T-D Tot	156	2267	705	10642	0	0	90	817	1841	28494
NC YTD Tot	5	720	37	1531	0	0	1	41	21	2923
C&F Month	276	914	444	3723	124	962	124	1433	793	10588
C&F Y-T-D	493	3850	2525	22410	150	15196	522	6179	4420	56918
C&F NC YTD*	18	1520	117	8846	4	324	18	1764	88	13904

Other Manufacturing Technology

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	461	0	3534	0	13	0	817	0	9508
2000000000	0	166	0	1833	0	0	0	569	0	4447
2710003070	0	0	0	0	0	0	0	50	0	344
8428900010	0	0	1	30	0	0	0	0	0	0
8431390090	0	2186	0	78	0	0	0	623	0	3229
8456100000	0	0	6	119	0	0	20	419	1	188
200000	4	103	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	26
106070	0	0	3	280	0	0	2	124	6	888
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	1	110	1	100
200030	0	0	0	0	0	0	3	76	10	250
200060	0	0	1	19	0	0	0	0	0	0
300000	0	0	6	614	0	0	0	0	8	111
400000	0	0	0	0	0	0	0	0	2	41
510010	4	93	0	0	0	0	4	85	11	246
510090	45	11	1	500	0	0	0	0	12	217
590000	2	26	209	3721	0	0	0	0	2	23
800000	6	100	8	315	0	0	13	24	41	764
8479899040	0	0	6	308	0	0	1	8	39	272
908040	0	0	0	2037	0	0	0	55	0	55
8537100030	1	13	31	404	0	0	0	0	24	394
9024100000	0	10	0	288	0	58	0	59	0	1133
9031100000	0	0	0	25	0	0	0	5	0	270
300000	0	0	0	0	0	0	0	0	0	6
9032810040	31057	103	7415	515	0	0	1286	69	5891	459

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	1	10	0	0	1	10
Denmark	7	260	5	33	12	293
Finland	42	14	2	37	44	51
Greece	1	25	4	103	5	128
Hungary	38	164	0	0	38	164
Iceland	0	0	0	0	0	0
Ireland	5	85	18	1075	23	1160
Luxembourg	0	0	0	0	0	0
Norway	13	97	5	4	18	102
Poland	0	0	1	1350	1	1350
Portugal	10	10	0	0	10	10
Romania	13	451	0	0	13	451
Sweden	28	601	17	237	45	838
Turkey	3	32	18	250	21	282
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	7	6	7	6
TOTAL	1316	14295	710	17022	2026	31317
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	7	5	19	21	26	26
Belize	0	0	0	0	0	0
Bermuda	2	4	0	0	2	4
Costa Rica	0	0	6	5	6	5
Dominican Rep	0	0	2	3	2	3
El Salvador	0	0	0	0	0	0
Guatemala	5	3	0	0	5	3
Haiti	0	0	0	0	0	0
Honduras	0	0	0	0	0	0
Jamaica	0	0	1	15	1	15
Panama	13	19	6	322	19	341
Trinidad	0	0	4	83	4	83
Oth N & C Am.	0	0	1	81	1	81
TOTAL	1451	18313	821	9896	2272	28209
SOUTH AMERICA						
Argentina	5	72	2	3	7	75
Bolivia	0	0	0	0	0	0
Chile	17	158	22	991	39	1149
Colombia	8	53	4	63	12	116
Ecuador	2	9	1	102	3	111
Paraguay	0	0	0	0	0	0
Peru	9	96	55	52	64	148
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	207	2346	105	1721	312	4067
OCEANIA						
New Zealand	1	3	9	8	10	11
Oth Oceania	2	6	0	0	2	6
TOTAL	26	131	38	251	64	382

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	184	1078	19	391	203	1469
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	14	64	2	81	16	145
Jordan	6	10	1	11	7	21
Kuwait	1	5	0	0	1	5
Laos	0	0	0	0	0	0
Lebanon	5	8	0	0	5	8
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	0	0	3	493	3	493
Philippines	19	37	20	41	39	78
Qatar	12	7	0	0	12	7
Saudi Arabia	7	19	7	86	14	105
Sri Lanka	0	0	0	0	0	0
Syria	0	0	1	11	1	11
United Arab Emr	12	29	3	53	15	82
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1962	17231	679	20691	2641	37922
AFRICA						
Algeria	5	590	7	283	12	873
Botswana	0	0	0	0	0	0
Egypt	6	198	0	0	6	198
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	17	40	0	0	17	40
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	1	31	1	31
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	28	828	8	314	36	1142

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - May 91

RELEASED: August 7, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	278	21567	50	3341
301050	Electro-discharge machines, n.e.c., NC	84	8527	10	1019
301070	Electro-discharge machines, n.e.c., non-NC	156	1480	4	133
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	667	56432	125	9894
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	46	8409	9	2253
100035	Horizontal machining centers, ATC	225	49080	44	8803
100045	Machining centers, n.e.c.	122	65277	21	19548
200010	Unit construction mach. (single station transfer), NC	20	4272	2	1213
200090	Unit construction mach. (single station transfer), non-NC	4	939	0	0
300010	Multi-station transfer machines, NC	7	7406	4	5638
300090	Multi-station transfer machines, non-NC	26	12499	10	6525
8458110010	Horizontal lathes, multiple spindle, NC	114	18670	18	2737
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	818	62348	146	10356
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	171	25346	29	4535
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	27	11531	4	3065
190030	Horizontal engine or toolroom lathes, non-NC	1506	14265	358	3372
190050	Automatic bar and/or chucking mach., single spindle, non-NC	177	5189	26	766
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	14	1968	4	386
190090	Horizontal lathes, n.e.c., non-NC	263	9689	26	4671
911060	Vertical turret lathes, multiple spindle, NC	3	550	0	0
911080	Vertical turret lathes, n.e.c., NC	20	5010	2	1159
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	14	2881	0	0
991050	Vertical turret lathes, non-NC	43	504	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	130	3805	28	1064
8459100000	Way-type unit head machines	1	58	0	0
210080	Other drilling machines, NC	157	13429	31	4107
290040	Drilling machines, multiple spindle, non-NC	10	1016	1	12
290050	Drilling machines, radial, non-NC	106	1130	12	129
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	35	338	2	190
290090	Drilling machines, n.e.c., non-NC	191	6510	33	1849
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	6	2924	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	49	8749	7	1545
310070	Boring-milling machines, n.e.c., NC	12	2786	1	1023
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	44	3439	21	594
400040	Boring machines, vertical, NC	6	1085	2	758
400050	Boring machines, vertical, non-NC	19	469	0	0
400070	Boring machines, n.e.c., NC	12	3848	1	2641
400080	Boring machines, n.e.c., non-NC	147	2504	21	439
510080	Milling machines, knee type, NC	205	3715	7	142
590030	Milling machines, knee type, non-NC	862	7385	182	1146
610080	Milling machines, excluding knee type, n.e.c., NC	219	17763	30	4018
690050	Milling machines, profile, dup., or die sinking, non-NC	13	141	0	0
690070	Milling machines, bed type, non-NC	14	445	0	0
690090	Milling machines, n.e.c., non-NC	199	5980	7	136
700020	Threading or tapping machines, n.e.c., NC	76	4973	12	669
700080	Threading or tapping machines, n.e.c., non-NC	54	1903	13	341
8460110080	Flat surface grinding machines, NC	63	5623	13	979
190010	Flat surface grinding mach., recip.-table type, non-NC	183	2919	20	176
190050	Flat surface grinding machines, n.e.c., non-NC	571	7198	156	1493
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	228	38555	32	5764
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	175	4494	21	825
290030	Grinding machines, internal cylindrical, non-NC	99	3034	11	747
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	391	13501	75	1296
310080	Sharpening machines (tool & cutter grinding), NC	67	2375	18	291
390050	Sharpening machines (tool or cutter grinding), non-NC	277	3181	45	427
400060	Honing or lapping machines, NC	14	1428	0	0
400080	Honing or lapping machines, non-NC	67	4008	9	669
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	35	998	9	187
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	520	15030	106	1657
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	6	37	0	0
200010	Shaping or slotting machines, NC	2	298	0	0
200090	Shaping or slotting machines, non-NC	19	2402	2	447
300060	Broaching machines, NC	5	2814	2	2695
300080	Broaching machines, non-NC	6	3092	0	0
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	62	9063	20	1956
401040	Gear shapers	27	3084	5	784
401060	Gear cutting machines, n.e.c.	79	2229	61	15
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	21	10171	5	2110
500050	Sawing or cutting-off machines, NC	52	9796	2	2969
500090	Sawing or cutting-off machines, non-NC	645	13670	141	4861
9000000001	Metal cutting machine tools, n.e.c.	117	7647	16	2362
9800000001	Used or rebuilt machine tools	1084	20305	181	3423
9900000001	Machine tools valued at less than $3,025	374000	36863	59065	7197
	Cutting Total			61318	153549
	Y-T-D Cutting Total	386201	714982		
	NC Y-T-D Cutting Total	3858	474466		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	3	353
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	223
100045	0	0	0	0	0	0	0	0	5	17723
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	3	5050
300090	0	0	0	0	1	65	0	0	3	4061
8458110010	0	0	0	0	0	0	0	0	3	443
110030	3	252	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	5	767	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	37	449	1	11	2	29	0	0
190050	0	0	3	55	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	2	4374
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	2	1159	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	2	57	0	0	0	0	1	8
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	1	12	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	1	160	0	0	0	0
290090	0	0	3	24	1	16	0	0	2	1120
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	3	739
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	9	0	0	1	6
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	4	28	14	294	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	2	261
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	36
700020	0	0	0	0	1	12	0	0	1	74
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	9	0	0	0	0	0	0	3	791
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	12	57	0	0	0	0
210080	0	0	0	0	0	0	0	0	11	1930
290010	0	0	0	0	6	62	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	212
290050	0	0	0	0	13	36	0	0	31	144
310080	0	0	0	0	0	0	0	0	1	28
390050	0	0	0	0	3	12	0	0	1	5
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	3	596
900060	0	0	0	0	1	71	0	0	0	0
900080	0	0	0	0	3	44	5	17	15	549
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	4	1091
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	2	1255
500050	0	0	0	0	0	0	0	0	2	2969
500090	0	0	0	0	32	382	2	41	24	2556
9000000001	0	0	0	0	0	0	0	0	5	1752
9800000001	0	0	1	46	11	26	1	16	45	450
9900000001	4	2	0	0	324	165	109	105	518	172
Month Tot	8	263	46	632	416	1166	140	2428	698	48972
Y-T-D Tot	22	1293	220	3732	1198	7230	779	8957	4368	177721
NC YTD Tot	4	261	12	1495	23	630	29	4576	301	121068

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	32	2347	0	0	0	0	0	0
301050	0	0	9	912	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	94	8100	2	150	10	428	0	0
100025	0	0	7	2144	0	0	2	109	0	0
100035	0	0	40	8198	1	68	0	0	0	0
100045	0	0	4	868	0	0	0	0	0	0
200010	1	1047	0	0	1	166	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	587	0	0	0	0	0	0	0	0
300090	3	1624	0	0	0	0	0	0	0	0
8458110010	0	0	15	2295	0	0	0	0	0	0
110030	0	0	113	9380	6	305	0	0	0	0
110050	0	0	24	3768	0	0	0	0	0	0
110090	0	0	1	236	0	0	0	0	0	0
190030	0	0	1	70	0	0	22	288	2	26
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	2	19	0	0	0	0	0	0
190090	0	0	4	93	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	6	419	5	274	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	30	4037	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	51
290070	0	0	1	30	0	0	0	0	0	0
290090	1	345	0	0	0	0	0	0	16	137
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	6	66	0	0	0	0	0	0	0	0
400040	0	0	1	703	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	1	2641	0	0	0	0	0	0
400080	1	48	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	1	46	0	0	0	0	0	0	86	544
610080	0	0	7	3499	0	0	1	35	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	36	0	0	0	0	2	38
700020	0	0	10	583	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	1	10	1	115	0	0	0	0	0	0
190010	0	0	0	0	0	0	6	114	0	0
190050	0	0	1	61	0	0	0	0	0	0
210080	1	405	18	3044	0	0	0	0	0	0
290010	0	0	8	322	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	14	175	4	381	0	0	0	0	0	0
310080	1	3	0	0	0	0	0	0	0	0
390050	10	61	5	72	0	0	0	0	1	60
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	2	6	0	0	0	0	0	0
900060	0	0	1	61	0	0	0	0	0	0
900080	2	20	16	350	0	0	0	0	3	333
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	447	0	0	0	0	0	0
300060	0	0	1	292	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	3	688	0	0	0	0	0	0
401040	0	0	4	772	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	2	162	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	30	740	26	864	0	0	0	0	0	0
9000000001	1	4	4	312	0	0	0	0	0	0
9800000001	1	11	30	1005	1	20	0	0	0	0
9900000001	1721	435	3914	617	1015	94	28	5	2	3
Month Tot	1798	5793	4444	59785	1031	1075	69	979	113	1191
Y-T-D Tot	18351	17510	26326	317751	9722	7479	505	4325	981	9967
NC YTD Tot	28	6752	2290	267076	64	4258	31	1700	135	1025

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - May 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	3	435	0	0	0	0	15	559
301050	0	0	1	107	0	0	0	0	0	0
301070	0	0	1	40	2	30	0	0	1	62
8457100015	0	0	0	0	1	89	10	572	5	202
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	2	314	0	0
100045	0	0	0	0	0	0	8	677	4	280
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	3	774	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	117	15	167	2	35	6	100
110050	0	0	0	0	0	0	0	0	0	0
110090	2	2452	0	0	0	0	0	0	1	378
190030	0	0	1	4	109	743	27	411	156	1343
190050	0	0	4	595	11	82	0	0	8	34
190070	0	0	2	367	0	0	0	0	0	0
190090	0	0	0	0	0	0	11	166	9	38
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	1	8	6	110	7	187
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	70
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	79
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	8	189	2	18
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	1	622	0	0	0	0	3	184
310070	0	0	0	0	0	0	0	0	1	1023
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	462	12	52	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	55
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	69
510080	0	0	0	0	6	94	1	48	0	0
590030	0	0	0	0	81	419	2	85	12	52
610030	0	0	1	99	0	0	1	13	18	111
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	27	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	6	99	0	0	0	0	7	243
8460110080	0	0	0	0	0	0	7	54	0	0
190010	0	0	0	0	6	40	0	0	8	22
190050	1	579	1	4	140	781	0	0	1	11
210080	0	0	2	385	0	0	0	0	0	0
290010	0	0	4	356	0	0	2	65	1	19
290030	0	0	10	534	0	0	0	0	0	0
290050	0	0	4	538	9	23	0	0	0	0
310080	0	0	6	162	0	0	9	6	1	93
390050	0	0	0	0	0	0	24	213	1	4
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	4	67	0	0
900060	0	0	0	0	0	0	0	0	7	55
900080	0	0	1	37	2	12	24	99	35	196
100060	0	0	0	0	0	0	0	0	0	0
8461100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	1	2403	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	13	177	0	0
401040	0	0	0	0	0	0	0	0	1	12
401060	0	0	57	10	0	0	4	5	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	692	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	64	2	66	13	93	9	46	2	10
9000000001	0	0	4	278	0	0	0	0	2	16
9800000001	1	34	11	299	2	74	67	1275	10	168
9900000001	282	320	22	16	41618	4446	360	60	9148	757
Month Tot	287	3449	150	7099	42028	7152	603	7116	9487	6448
Y-T-D Tot	1402	11462	540	31880	278857	47598	1355	38870	41575	29207
NC YTD Tot	10	5704	113	15749	361	12416	166	22354	291	9403

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 91

RELEASED: August 7, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	129	16127	43	3474
8462100030	Headers and upsetters, including cold headers	40	9010	7	2699
100050	Forging or die stamping machines, and hammers, n.e.c.	313	17008	145	3521
210080	Bending, folding, straight. or flat. mach., incl presses, NC	213	17950	48	3845
290030	Press brakes, non-NC	100	3572	18	804
290040	Bending rolls, non-NC	30	882	2	19
290050	Bending, folding, straight., or flat., n.e.c., non-NC	422	12417	56	2720
310080	Shearing machines, NC	9	1213	1	180
390050	Shearing machines, non-NC	149	4837	18	266
410080	Punching or notching mach., incl. comb. punch & shear, NC	81	10764	32	2761
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	185	4728	58	1235
910060	Hydraulic presses, NC	8	5082	0	0
910090	Hydraulic presses, non-NC	712	9586	242	1343
990030	Presses, n.e.c., NC	1	1281	1	1281
990035	Mechanical transfer presses, non-NC	6	55611	1	4522
990045	Mechanical presses, n.e.c., non-NC	42	13212	10	1172
990060	Presses, n.e.c., non-NC	169	10659	47	1400
8463100080	Draw benches for bars, tubes, profiles, wire or the like	91	7199	19	1289
200080	Thread rolling machines	30	1021	4	20
300080	Machines for working wire	464	25866	28	3044
900080	Metal forming machine tools, n.e.c.	494	15102	78	2210
9800000002	Used or rebuilt machine tools	2033	14131	86	2314
9900000002	Machine tools valued at less than $3,025	6292	2214	2129	554
	Forming Total			3073	40675
	Y-T-D Forming Total	12013	259471		
	NC Y-T-D Forming Total	312	36291		
	Cutting and Forming Totals:				
	Monthly Total			64391	194224
	Y-T-D Total	398214	974453		
	NC Y-T-D Total	4170	510757		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	233416	0	47972
2000000000	Parts for working rubber or plastics - heading 8477	0	147368	0	29161
2710003070	Quenching or cutting oils	0	129	0	11
8428900010	Industrial robots for lifting, handling, loading or unload	688	12313	69	2393
8431390080	Parts industrial robots, handling and loading - heading 8428	0	39429	0	5989
8456101010	Laser, light or photon beam for working metal, NC	58	15190	13	6008
101020	Laser, light or photon beam for working metal, non-NC	38	5805	11	905
105000	Laser, light or photon beam for other materials	29	3978	2	375
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	32	114	18	15
205000	Ultrasonic processes for working other materials	26	154	0	0
8477103000	Injection molding mach., for manufacturing shoes	5	875	1	462
106010	Injection molding mach., for rubber or oth. thermosetting	359	42279	67	8908
106050	Injection molding mach., for thermoplastics	991	96398	248	22297
200005	Extruders; rubber or other thermosetting mat., single screw	17	3624	6	415
200015	Extruders; rubber or thermosetting, other incl. multi. screw	84	10937	20	3055
200035	Extruders; thermoplastics, single screw, less than 6.4cm	39	882	9	302
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	41	4577	8	214
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	20	1692	10	844
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	62	8841	15	1749
300000	Blow molding machines	95	24093	20	7692
400000	Vacuum-molding and other thermoforming machines	186	8770	127	4494
510010	Machines for molding or retreading pneumatic tires	193	12825	25	3959
510090	Machines for molding or otherwise forming inner tubes	40	2889	4	378
590000	Machines for molding or otherwise forming n.e.c.	288	14935	113	1468
800000	Machines for working rubber or plastics n.e.c.	912	73629	170	11251
8479899040	Industrial robots, n.e.c.	1592	59222	232	9423
908040	Industrial robot parts	0	14933	0	2055
8537100030	Numerical controls for controlling machine tools	3203	14492	593	2486
9024100000	Machines and appliances for testing metals	0	5544	0	925
9031100000	Machines for balancing mechanical parts	0	3585	0	2376
300000	Profile projectors	0	2681	0	438
9032810020	Industrial process control instr., hydraulic	58162	1726	10873	181
810060	Industrial process control instr., pneumatic	69767	2213	8540	280

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	200	0	0	1	483
8462100030	0	0	0	0	0	0	0	0	2	533
100050	0	0	0	0	6	39	0	0	0	0
210080	0	0	0	0	1	545	3	11	3	263
290030	2	93	0	0	14	679	0	0	0	0
290040	0	0	0	0	1	10	0	0	1	9
290050	1	7	0	0	15	201	0	0	2	491
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	3	64	0	0	5	52
410080	0	0	0	0	0	0	0	0	27	1977
490050	0	0	0	0	1	10	0	0	5	397
910060	0	0	0	0	0	0	0	0	0	0
910090	1	31	0	0	1	188	0	0	2	137
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	1	155
990060	0	0	0	0	16	630	0	0	1	31
8463100080	9	594	0	0	0	0	0	0	9	667
200080	0	0	0	0	0	0	0	0	0	0
300080	3	142	0	0	0	0	0	0	7	414
900080	0	0	0	0	2	94	4	40	2	155
9800000002	0	0	16	476	28	277	1	1	4	334
9900000002	0	0	1	3	300	41	0	0	21	28
Month Tot	16	867	17	478	394	2976	8	52	93	6127
Y-T-D Tot	96	4464	24	19697	1136	20737	84	992	756	39354
NC YTD Tot	1	561	0	0	19	2774	5	55	56	10045
C&F Month	24	1129	63	1110	810	4143	148	2480	791	55099
C&F Y-T-D	118	5757	244	23429	2334	27967	863	9949	5124	217075
C&F NC YTD	5	822	12	1495	42	3405	34	4630	357	131112

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1472	0	83	0	5686	0	346	0	9005
2000000000	0	24	0	2	0	5538	0	5653	0	9488
2710003070	0	0	0	0	0	6	0	0	0	3
8428900010	0	0	0	0	2	31	0	0	0	0
8431390080	0	0	0	269	0	1105	0	48	0	977
8456101010	0	0	0	0	0	0	0	0	2	424
101020	0	0	0	0	0	0	0	0	11	905
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	1	222	0	0	8	584
106050	0	0	0	0	27	4130	0	0	80	3383
200005	0	0	0	0	0	0	0	0	2	207
200015	0	0	0	0	3	29	0	0	13	2403
200035	0	0	0	0	6	65	0	0	1	109
200045	0	0	0	0	1	3	0	0	1	203
200055	0	0	0	0	2	22	0	0	2	342
200065	0	0	0	0	1	26	0	0	8	1288
300000	0	0	0	0	1	65	3	4394	10	2424
400000	0	0	0	0	0	0	0	0	24	1806
510010	0	0	0	0	8	1095	0	0	6	2085
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	8	272	0	0	93	514
800000	4	173	0	0	23	369	0	0	36	2775
8479899040	0	0	0	0	1	1513	0	0	4	343
908040	0	0	0	0	0	30	0	6	0	642
8537100030	0	0	0	0	0	0	1	3	20	9
9024100000	0	0	0	0	0	92	0	0	0	37
9031100000	0	0	0	0	0	82	0	0	0	12
300000	0	0	0	0	0	0	0	0	0	9
9032810020	0	0	0	0	1	2	0	0	8	25
810060	0	0	17	3	25	6	0	0	26	7

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	239	34	2532	0	0	0	0	0	0
8462100030	0	0	4	1615	0	0	0	0	0	0
100050	5	707	127	2682	0	0	0	0	0	0
210080	1	31	37	2964	0	0	0	0	0	0
290030	0	0	2	32	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	5	42	8	325	0	0	0	0	0	0
310080	0	0	1	180	0	0	0	0	0	0
390050	0	0	1	36	0	0	0	0	0	0
410080	0	0	3	373	0	0	0	0	0	0
490050	21	154	6	242	0	0	0	0	18	156
910060	0	0	0	0	0	0	0	0	0	0
910090	3	90	25	886	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	4522	0	0	0	0	0	0
990045	1	143	8	874	0	0	0	0	0	0
990060	0	0	19	397	0	0	0	0	2	15
8463100080	0	0	1	28	0	0	0	0	0	0
200080	0	0	4	20	0	0	0	0	0	0
300080	7	2266	6	129	0	0	0	0	0	0
900000	8	856	9	777	0	0	0	0	0	0
9800000002	0	0	11	857	0	0	0	0	0	0
9900000002	429	64	216	52	0	0	0	0	55	41
Month Tot	481	4593	523	19523	0	0	0	0	75	211
Y-T-D Tot	826	17238	2043	121036	11	363	1	300	270	1256
NC YTD Tot	21	756	170	15942	0	0	0	0	0	0
C&F Month	2279	10387	4967	79309	1031	1075	69	979	188	1402
C&F Y-T-D	19177	34748	28369	438787	9733	7842	506	4626	1251	11223
C&F NC YTD	49	7508	2460	283018	64	4258	31	1700	135	1025
Other Manufacturing Technology										
1000000000	0	1343	0	17319	0	246	0	251	0	297
2000000000	0	698	0	5069	0	52	0	6	0	28
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	64	2164	0	0	0	0	0	0
8431390080	0	245	0	961	0	0	0	13	0	0
8456101010	0	0	11	5584	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	2	375	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	18	15	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	1	462	0	0	0	0	0	0	0	0
106010	3	525	42	6864	0	0	0	0	0	0
106050	18	3722	75	7558	4	142	0	0	0	0
200005	0	0	2	180	0	0	0	0	0	0
200015	0	0	0	0	1	350	0	0	0	0
200035	1	113	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	5	375	0	0	0	0	0	0
200065	4	352	1	19	0	0	0	0	0	0
300000	1	146	2	578	0	0	0	0	0	0
400000	71	2575	1	31	0	0	0	0	0	0
510010	4	70	6	695	0	0	0	0	0	0
510090	2	370	2	8	0	0	0	0	0	0
590000	5	362	3	51	0	0	0	0	0	0
800000	7	153	42	4702	4	166	0	0	0	0
8479899040	0	0	166	6834	0	0	1	2	0	0
908040	0	21	0	909	0	0	0	0	0	0
8537100030	16	104	553	2333	0	0	0	0	0	0
9024100000	0	60	0	97	0	0	0	0	0	0
9031100000	0	0	0	2256	0	19	0	0	0	0
300000	0	0	0	104	0	0	0	0	0	0
9032810020	0	0	0	0	200	4	0	0	0	0
810060	255	29	46	110	5000	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
May 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	20	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	1	551	0	0
100050	0	0	1	2	0	0	2	72	4	19
210080	0	0	0	0	3	31	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	10	500	0	0	2	7	5	1001	8	145
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	9	114	0	0
410080	0	0	0	0	0	0	0	0	2	411
490050	0	0	1	7	2	12	3	246	1	10
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	210	11
990030	0	0	0	0	0	0	1	1281	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	3	81	0	0	4	124	1	79	1	44
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	4	47	0	0	1	46
900080	0	0	41	178	1	4	10	100	1	6
9800000002	0	0	3	3	0	0	15	259	8	107
9900000002	0	0	36	57	438	205	4	9	629	56
Month Tot	13	581	83	267	454	431	51	3713	865	854
Y-T-D Tot	91	6269	484	7371	2840	2967	1561	10181	1790	7244
NC YTD Tot	8	1684	6	350	3	31	2	1467	21	2624
C&F Month	300	4030	233	7366	42482	7583	654	10830	10352	7302
C&F Y-T-D	1493	17731	1024	39251	281697	50565	2916	49051	43365	36451
C&F NC YTD	18	7388	119	16100	364	12447	168	23821	312	12027

Other Manufacturing Technology

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	992	0	2642	0	1401	0	4185	0	2704
2000000000	0	22	0	365	0	358	0	704	0	1153
2710003070	0	0	0	0	0	0	0	2	0	0
8428900010	1	42	0	0	0	0	0	0	2	156
8431390080	0	103	0	137	0	116	0	854	0	1161
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	2	279	2	43	1	19	8	372
106050	0	0	7	1155	8	234	6	35	23	1936
200005	0	0	0	0	0	0	0	0	2	28
200015	0	0	0	0	1	65	0	0	2	208
200035	0	0	0	0	0	0	1	15	0	0
200045	6	8	0	0	0	0	0	0	0	0
200055	0	0	0	0	1	105	0	0	0	0
200065	0	0	0	0	0	0	1	64	0	0
300000	0	0	0	0	3	86	0	0	0	0
400000	0	0	0	0	0	0	31	81	0	0
510010	0	0	0	0	0	0	1	15	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	2	22	2	247
800000	0	0	6	407	19	276	17	858	12	1371
8479899040	0	0	6	247	4	18	0	0	50	467
908040	0	84	0	57	0	18	0	148	0	139
8537100030	0	0	0	0	0	0	3	37	0	0
9024100000	0	0	0	265	0	3	0	338	0	33
9031100000	0	0	0	0	0	0	0	2	0	5
300000	0	0	0	2	0	0	0	294	0	29
9032810020	0	0	0	0	0	0	2015	12	8649	138
810060	350	95	0	0	1520	4	0	0	1301	9

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	54	1751	1	6	55	1757
Bulgaria	9	48	0	0	9	48
Czechoslovakia	10	208	0	0	10	208
Denmark	54	161	12	95	66	256
Finland	3	22	3	436	6	458
Hungary	1	30	0	0	1	30
Ireland	43	48	2	2	45	50
Luxembourg	1	31	0	0	1	31
Netherlands	1	70	3	74	4	144
Norway	3	19	1	6	4	25
Poland	23	789	0	0	23	789
Portugal	0	0	0	0	0	0
Romania	1	55	0	0	1	55
USSR	0	0	0	0	0	0
Yugoslavia	7	465	0	0	7	465
Oth Europe	0	0	0	0	0	0
TOTAL	4007	80008	842	17031	4849	97039
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	84	22	12	42	96	64
Oth N & C Am.	0	0	0	0	0	0
TOTAL	500	1188	406	3019	906	4207
SOUTH AMERICA						
Argentina	1	62	0	0	1	62
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	47	694	17	478	64	1172
OCEANIA						
Australia	4	105	0	0	4	105
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	4	105	0	0	4	105

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
May 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	9135	1470	825	106	9960	1577
Hong Kong	28	332	0	0	28	332
India	6	55	3	2	9	57
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	0	0	3	84	3	84
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	19	704	0	0	19	704
Oth Asia	0	0	0	0	0	0
TOTAL	56760	71553	1808	20147	58568	91701
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

A 8620-3

REPORT

NMTBA
The Association For
Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 90-91 August 28, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JUNE 1991

(Values in Millions of U.S. Dollars)

	June 1991	May 1991	Average Mar.-May	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 61.7	$ 53.1	$ 51.0	$316.4	$307.3	3.0%
Imports	$144.0	$153.5	$155.4	$859.0	$843.5	1.8%
Balance	($ 82.3)	($100.4)	($104.4)	($542.6)	($536.2)	1.2%
METAL FORMING MACHINE TOOLS						
Exports	$ 43.7	$ 49.9	$ 41.5	$235.0	$239.7	(2.0%)
Imports	$ 34.7	$ 40.7	$ 56.2	$294.1	$232.0	26.8%
Balance	$ 9.0	$ 9.2	($ 14.7)	($ 59.1)	$ 7.7	NM
MACHINE TOOL TOTAL						
Exports	$105.4	$103.0	$ 92.6	$551.5	$547.0	0.8%
Imports	$178.6	$194.2	$211.5	$1,153.1	$1,075.5	7.2%
Balance	($ 73.2)	($ 91.2)	($118.9)	($601.6)	($528.5)	13.8%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 27.0	$ 34.4	$ 31.5	$175.7	$175.3	0.2%
Imports	$114.6	$111.7	$112.4	$625.4	$571.1	9.5%
Balance	($ 87.6)	($ 77.3)	($ 80.9)	($449.7)	($395.8)	13.6%
OTHER MANUFACTURING TECHNOLOGY						
Exports	$139.9	$152.3	$142.7	$833.9	$920.5	(9.4%)
Imports	$155.3	$178.5	$180.8	$1,024.9	$987.3	3.8%
Balance	($ 15.4)	($ 26.2)	($ 38.1)	($191.0)	($ 66.8)	185.9%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. ( ) denotes negative. NM = not meaningful. Individual items may not add up to totals due to rounding.

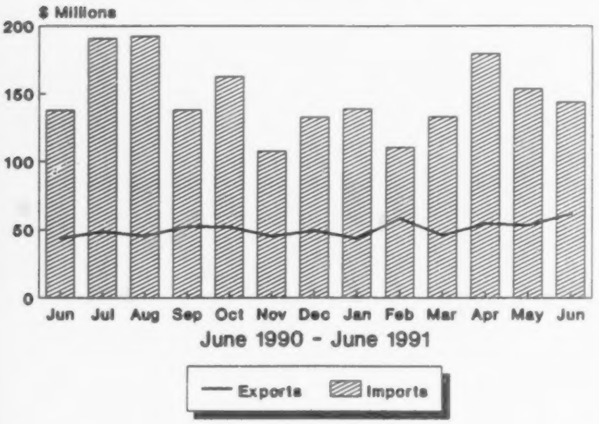
- U.S. machine tool exports reached $105.4 million in June, marking the first time in ten years that exports have exceeded $100 million for two consecutive months. For the first time this year, exports are slightly ahead of last year's record pace.

- U.S. machine tool imports fell 8% in June to $178.6 million, the second consecutive monthly decline. Year-to-date imports are still 7% higher than last year at this time.

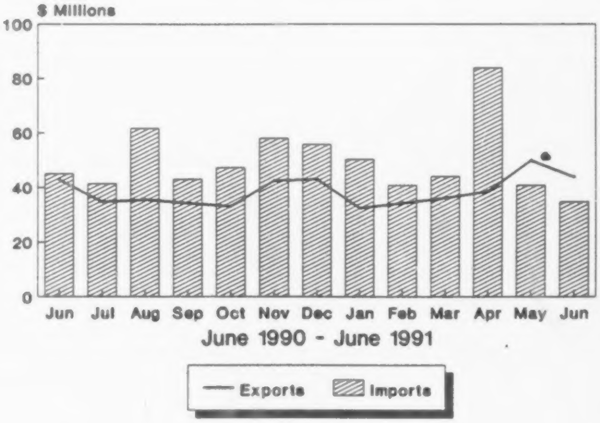
- Year-to-date exports of numerically controlled machine tools are up a fraction over last year to $175.7 million, while imports are up 10% to $625.4 million.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

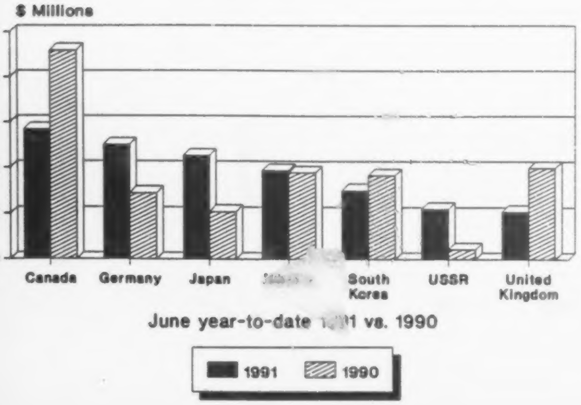
Exports

- Exports of metal cutting machines in June rose to $61.7 million, the highest monthly total since July 1981. The top markets in June: Japan ($11.0 million), Mexico ($8.2 million) and Canada ($8.2 million).

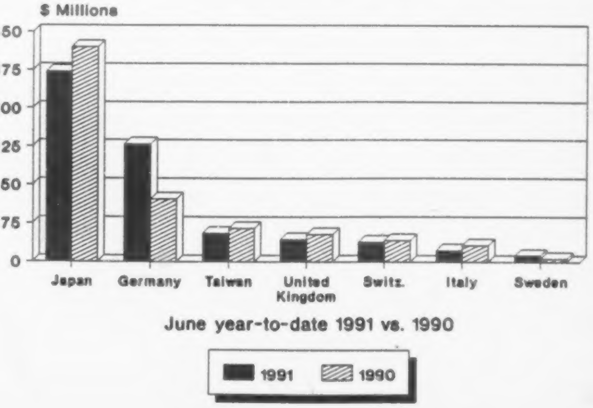
- Canada is the top year-to-date export market at $42.7 million, down 38% from last year. Germany is next at $37.7 million (up 74%), followed by Japan ($34.1 million, up 119%), Mexico ($29.2 million, up 3%) and South Korea ($22.6 million, down 18%).

- Exports of gear cutting machines through June ($38.9 million) are up 58% over last year; exports of milling machines ($22.9 million) are up 31%. Exports of grinding machines ($58.0 million) are down 10%, and exports of NC horizontal lathes ($17.8 million) are down 32%.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

- Imports of metal cutting machines in June fell 6% to $144.0 million. Year-to-date imports are $859.0 million, up 2% from last year at this time.

- Year-to-date imports of machining centers (1,291 units, $241.6 million) are down 25% in unit terms but up 20% in value terms over last year. Imports of grinding machines (3,072 units, $116.1 million) are down 29% in unit terms and down 11% in value terms.

- Imports from Germany in 1991 through June reached $230.0 million, up 87% over last year. Imports from Sweden ($12.3 million) are up 83%, while imports from Belgium ($1.3 million) are up 28%. Imports from every other major supplier are down in 1991 compared to last year, including Japan (down 12%) and Taiwan (down 15%).

METAL FORMING MACHINE TOOLS

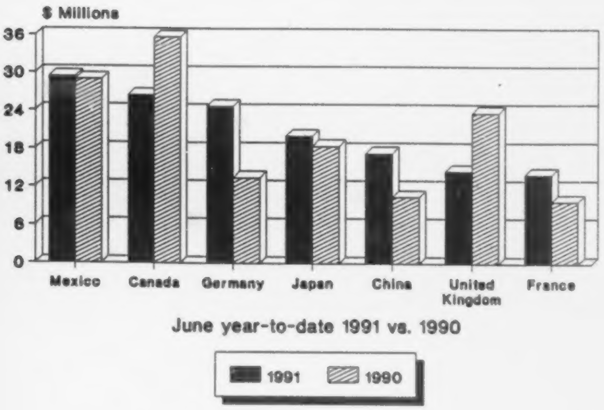
Exports

- Exports of metal forming machines fell to $43.7 million in June, down from May's $49.9 million. The average for 1991: $39.2 million. Year-to-date exports are down 2% from last year.

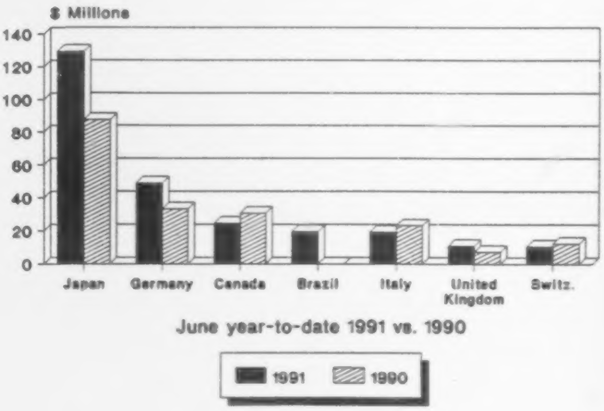
- Year-to-date exports of presses are down both in unit terms (23%) and value terms (36%) over last year; exports of bending and forming machines are down 1% in unit terms but up 27% in value terms.

- Mexico is the top export market so far in 1991 at $29.4 million, up slightly from last year. Exports to Thailand ($5.1 million) are up 110% over last year; exports to Indonesia ($3.4 million) are up from just $51,094 last year at this time.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Imports of metal forming machines in June fell to their lowest level since February 1990, totalling $34.7 million. Year-to-date imports are led by presses ($101.3 million, up 133% over last year) and bending and forming machines ($40.7 million, down 4%).

- Japan is the top import source at $129.2 million, up from $87.6 million last year at this time. Other top import sources are Germany ($49.0 million), Canada ($24.6 million) and Brazil ($19.7 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of other manufacturing technology were $139.9 million in June, down from an average of $142.7 million for the previous three months.

- Exports of machine tool parts and accessories so far in 1991 are $335.2 million, down from $364.3 million last year at this time. The top export markets in 1991: Canada ($59.4 million, down from $84.4 million in 1990), Germany ($35.0 million, down from $38.4 million last year) and Japan ($31.1 million, down from $31.9 million).

Imports

- June imports of other manufacturing technology were $155.3 million, for a year-to-date total ($1.0 billion) up 4% over last year.

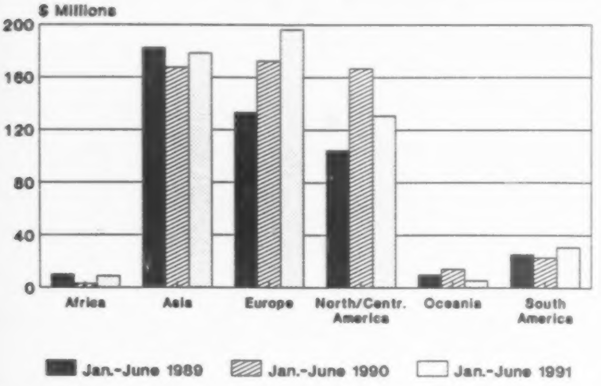
- Imports of numerical controls for controlling machine tools in 1991 through June are 4,725 units valued at $17.2 million. The comparable figures for 1990: 7,771 units valued at $25.9 million.

MONTHLY FOCUS

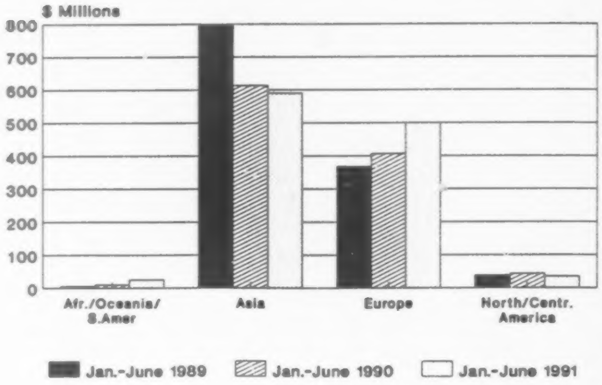
In the first six months of 1990, U.S. machine tool exports to North/Central America, Asia and Europe were nearly equal: $166.6 million for North/Central America, $167.7 million for Asia; and $172.4 million for Europe. In 1991 through June exports are not nearly as evenly spread. In Europe, higher exports to Germany, France and the USSR exceed lower exports to the United Kingdom and Belgium, for a total of $196.3 million, up 14% over last year. Conversely, a sharp drop in exports to Canada has led to total exports to North/Central America of $131.1 million, 21% lower than last year. Exports to Asia so far this year are $178.3 million, up 6% over last year but down 2% from 1989 at this time.

Exports to South America in 1991 through June are up 35% over last year; exports to Africa are up more than 200%. Exports to Oceania -- Australia and New Zealand -- are down 61% from 1990 at this time.

U.S. Machine Tool Exports By Region
January-June 1989, 1990, 1991



U.S. Machine Tool Imports By Region
January-June 1989, 1990, 1991



Source: U.S. Bureau of the Census

1991 EXPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	% CHANGE	JUNE’91 YTD	JUNE’90 YTD	% CHANGE
Canada	$8,154,483	$12,619,650	-35.4%	$42,659,512	$68,903,254	-38.1%
Germany	4,612,656	3,792,815	21.6%	37,703,295	21,686,944	73.9%
Japan	10,974,569	5,145,053	113.3%	34,057,522	15,549,896	119.0%
Mexico	8,218,265	5,662,626	45.1%	29,156,544	28,439,391	2.5%
South Korea	6,400,548	2,979,701	114.8%	22,587,632	27,535,520	-18.0%
USSR	1,372,700	961,957	42.7%	16,569,190	3,241,319	411.2%
United Kingdom	3,881,998	3,089,947	25.6%	15,650,001	30,003,577	-47.8%
China	1,135,393	3,281,521	-65.4%	14,539,388	11,913,898	22.0%
France	646,214	2,456,665	-73.7%	10,353,560	4,876,754	112.3%
Italy	1,002,598	402,436	149.1%	7,507,352	8,129,329	-7.7%
India	1,392,894	56,043	2,385.4%	7,093,506	10,124,429	-29.9%
Brazil	1,841,252	807,238	128.1%	6,542,376	8,699,159	-24.8%
Belgium	668,598	737,289	-9.3%	6,241,769	14,170,829	-56.0%
Venezuela	874,293	1,150,280	-24.0%	6,235,812	3,658,542	70.4%
Taiwan	1,565,630	1,263,538	23.9%	6,008,442	3,399,239	76.8%
Singapore	1,798,904	874,912	105.6%	4,668,178	4,403,797	6.0%
Switzerland	908,911	418,552	117.2%	3,504,113	3,028,906	15.7%
Netherlands	135,708	217,498	-37.6%	3,149,814	2,526,922	24.7%
Australia	677,193	122,228	454.0%	2,701,092	10,007,021	-73.0%
Thailand	53,682	536,601	-90.0%	1,636,658	1,145,658	42.9%
Malaysia	309,918	623,253	-50.3%	1,635,699	642,908	154.4%
Indonesia	0	1,212,769	-100.0%	1,294,474	130,842	889.3%
Spain	19,984	442,891	-95.5%	1,009,229	2,675,878	-62.3%
Austria	144,665	26,028	455.8%	638,179	190,049	235.8%

METAL FORMING

COUNTRY	JUNE	MAY	% CHANGE	JUNE’91 YTD	JUNE’90 YTD	% CHANGE
Mexico	$6,878,437	$5,984,291	14.9%	$29,376,167	$28,992,751	1.3%
Canada	4,679,687	3,382,214	38.4%	26,427,409	35,638,256	-25.8%
Germany	2,334,464	9,060,429	-74.2%	24,757,035	13,436,352	84.3%
Japan	2,640,973	2,924,556	-9.7%	20,039,551	18,460,279	8.6%
China	1,336,266	10,819,650	-87.6%	17,332,365	10,466,929	65.6%
United Kingdom	3,884,185	632,977	513.6%	14,525,919	23,727,260	-38.8%
France	3,791,859	1,429,585	165.2%	14,007,861	9,742,923	43.8%
South Korea	1,684,170	2,894,408	-41.8%	11,797,236	20,053,838	-41.2%
Netherlands	351,273	798,133	-56.0%	6,186,800	3,990,488	55.0%
Thailand	2,841,908	377,686	652.5%	5,108,875	2,428,334	110.4%
Italy	969,325	1,478,970	-34.5%	4,841,360	5,659,721	-14.5%
Taiwan	509,210	540,478	-5.8%	4,657,229	8,987,397	-48.2%
Brazil	1,271,121	227,425	458.9%	4,022,584	2,746,149	46.5%
Indonesia	108,013	1,384,349	-92.2%	3,437,699	51,094	6,628.2%
Spain	2,623,337	200,575	1,207.9%	3,361,839	3,321,914	1.2%
Singapore	251,798	395,468	-36.3%	3,249,305	3,272,097	-0.7%
Australia	624,611	242,963	157.1%	1,998,261	3,293,028	-39.3%
Belgium	1,010,320	183,096	451.8%	1,803,814	2,093,990	-13.9%
Venezuela	507,503	282,609	79.6%	1,324,832	863,100	53.5%
Switzerland	110,417	142,699	-22.6%	1,297,732	1,380,508	-6.0%
Malaysia	3,393	158,579	-97.9%	813,534	3,128,863	-74.0%
India	111,902	28,327	295.0%	789,535	5,302,748	-85.1%
Austria	0	0	NA	187,657	1,632,485	-88.5%
USSR	25,640	0	NA	25,640	694,819	-96.3%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	% CHANGE	JUNE’91 YTD	JUNE’90 YTD	% CHANGE
Canada	$12,834,170	$16,001,864	-19.8%	$69,086,921	$104,541,510	-33.9%
Germany	6,947,120	12,853,244	-46.0%	62,460,330	35,123,296	77.8%
Mexico	15,096,702	11,646,917	29.6%	58,532,711	57,432,142	1.9%
Japan	13,615,542	8,069,609	68.7%	54,097,073	34,010,175	59.1%
South Korea	8,084,718	5,874,109	37.6%	34,384,868	47,589,358	-27.7%
China	2,471,659	14,101,171	-82.5%	31,871,753	22,380,827	42.4%
United Kingdom	7,766,183	3,722,924	108.6%	30,175,920	53,730,837	-43.8%
France	4,438,073	3,886,250	14.2%	24,361,421	14,619,677	66.6%
USSR	1,398,340	961,957	45.4%	16,594,830	3,936,138	321.6%
Italy	1,971,923	1,881,406	4.8%	12,348,712	13,789,050	-10.4%
Taiwan	2,074,840	1,804,016	15.0%	10,665,671	12,386,636	-13.9%
Brazil	3,112,373	1,034,663	200.8%	10,564,960	11,445,308	-7.7%
Netherlands	486,981	1,015,631	-52.1%	9,336,614	6,517,410	43.3%
Belgium	1,678,918	920,385	82.4%	8,045,583	16,264,819	-50.5%
Singapore	2,050,702	1,270,380	61.4%	7,917,483	7,675,894	3.1%
India	1,504,796	84,370	1,683.6%	7,883,041	15,427,177	-48.9%
Venezuela	1,381,796	1,432,889	-3.6%	7,560,644	4,521,642	67.2%
Thailand	2,895,590	914,287	216.7%	6,745,533	3,573,992	88.7%
Switzerland	1,019,328	561,251	81.6%	4,801,845	4,409,414	8.9%
Indonesia	108,013	2,597,118	-95.8%	4,732,173	181,936	2,501.0%
Australia	1,301,804	365,191	256.5%	4,699,353	13,300,049	-64.7%
Spain	2,643,321	643,466	310.8%	4,371,068	5,997,792	-27.1%
Malaysia	313,311	781,832	-59.9%	2,449,233	3,771,771	-35.1%
Austria	144,665	26,028	455.8%	825,836	1,822,534	-54.7%

1991 IMPORTS

METAL CUTTING

COUNTRY	JUNE	MAY	% CHANGE	JUNE'91 YTD	JUNE'90 YTD	% CHANGE
Japan	53,601,710	59,785,295	-10.3%	371,352,552	419,739,263	-11.5%
Germany	52,275,221	48,972,489	6.7%	229,996,115	122,755,724	87.4%
Taiwan	8,265,642	7,151,921	15.6%	55,864,089	65,441,728	-14.6%
United Kingdom	5,023,408	7,116,379	-29.4%	43,893,185	53,433,104	-17.9%
Switzerland	6,543,203	7,098,549	-7.8%	38,423,685	41,705,349	-7.9%
Italy	5,076,750	5,793,204	-12.4%	22,586,768	31,692,294	-28.7%
Sweden	868,907	3,448,836	-74.8%	12,330,518	6,723,003	83.4%
Spain	1,016,548	1,191,046	-14.7%	10,983,545	11,598,733	-5.3%
France	948,235	2,428,213	-60.9%	9,905,423	12,717,075	-22.1%
Canada	1,997,968	1,166,177	71.3%	9,227,562	12,085,803	-23.6%
South Korea	1,511,994	1,075,367	40.6%	8,990,561	10,560,566	-14.9%
Singapore	1,153,400	979,116	17.8%	5,478,835	10,783,961	-49.2%
Brazil	412,183	631,862	-34.8%	4,144,455	8,654,424	-52.1%
Belgium	3,820	262,697	-98.5%	1,296,992	1,015,740	27.7%

METAL FORMING

COUNTRY	JUNE	MAY	% CHANGE	JUNE'91 YTD	JUNE'90 YTD	% CHANGE
Japan	8,193,742	19,523,303	-58.0%	129,230,004	87,646,001	47.4%
Germany	9,664,765	6,126,987	57.7%	49,018,592	33,523,223	46.2%
Canada	3,827,395	2,976,333	28.6%	24,564,708	30,640,856	-19.8%
Brazil	0	478,052	-100.0%	19,696,889	0	NA
Italy	2,189,022	4,593,392	-52.3%	19,427,449	23,194,021	-16.2%
United Kingdom	696,966	3,713,159	-81.2%	10,878,341	7,340,037	48.2%
Switzerland	3,178,774	267,196	1,089.7%	10,549,722	12,268,375	-14.0%
Sweden	887,335	580,889	52.8%	7,156,320	4,303,795	66.3%
Belgium	484,540	866,650	-44.1%	4,948,678	14,707,832	-66.4%
Taiwan	381,556	431,340	-11.5%	3,348,182	5,704,133	-41.3%
Spain	276,854	211,416	31.0%	1,533,013	2,500,381	-38.7%
France	110,501	51,591	114.2%	1,102,255	2,143,284	-48.6%
South Korea	82,000	0	NA	445,335	123,692	260.0%
Singapore	0	0	NA	300,254	57,059	426.2%

METAL CUTTING AND METAL FORMING

COUNTRY	JUNE	MAY	% CHANGE	JUNE'91 YTD	JUNE'90 YTD	% CHANGE
Japan	61,795,452	79,308,598	-22.1%	500,582,556	507,385,264	-1.3%
Germany	61,939,986	55,099,476	12.4%	279,014,707	156,278,947	78.5%
Taiwan	8,647,198	7,583,261	14.0%	59,212,271	71,145,861	-16.8%
United Kingdom	5,720,374	10,829,538	-47.2%	54,771,526	60,773,141	-9.9%
Switzerland	9,721,977	7,365,745	32.0%	48,973,407	53,973,724	-9.3%
Italy	7,265,772	10,386,596	-30.0%	42,014,217	54,886,315	-23.5%
Canada	5,825,363	4,142,510	40.6%	33,792,270	42,726,659	-20.9%
Brazil	412,183	1,109,914	-62.9%	23,841,344	8,654,424	175.5%
Sweden	1,756,242	4,029,725	-56.4%	19,486,838	11,026,798	76.7%
Spain	1,293,402	1,402,462	-7.8%	12,516,558	14,099,114	-11.2%
France	1,058,736	2,479,804	-57.3%	11,007,678	14,860,359	-25.9%
South Korea	1,593,994	1,075,367	48.2%	9,435,896	10,684,258	-11.7%
Belgium	488,360	1,129,347	-56.8%	6,245,670	15,723,572	-60.3%
Singapore	1,153,400	979,116	17.8%	5,779,089	10,841,020	-46.7%

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	5,272	15,333,596
Boring Machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling Machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear Cutting Machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding Machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
Horizontal Lathes NC	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
Vertical Lathes NC	1	161,310	2	341,835	6	371,174	1	89,700
Lathes Non-NC	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling Machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining Centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station Type Machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other Metal Cutting	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & Shearing Machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & Forming Machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging Machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other Metal Forming	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

PRODUCT TYPES	MAY 1991		JUNE 1991		JUNE 1991 YTD		JUNE 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,847	14,473,978	6,716	15,068,308	34,417	79,852,236	6,556	17,922,902
Boring Machines	9	811,684	29	2,458,144	71	7,804,458	28	725,470
Drilling Machines	81	1,767,423	182	2,096,676	631	12,200,190	120	1,137,000
Gear Cutting Machines	39	6,598,232	42	10,858,258	156	38,896,041	23	7,676,020
Grinding Machines	285	9,241,644	390	12,599,243	1,779	57,964,443	266	5,746,890
Horizontal Lathes NC	19	1,914,295	25	2,373,736	159	17,847,573	45	4,033,357
Vertical Lathes NC	9	592,211	2	108,000	21	1,664,230	1	63,000
Lathes Non-NC	45	1,357,057	49	2,263,152	275	8,022,496	85	1,435,017
Milling Machines	57	5,134,958	73	6,889,800	269	22,927,260	13	603,525
Machining Centers	37	5,715,931	24	2,660,799	160	27,231,030	39	6,176,997
Station Type Machines	4	3,143,769	6	2,649,559	30	32,588,398	0	0
Other Metal Cutting	341	8,257,118	273	9,131,128	1,703	45,348,854	378	6,376,676
Punching & Shearing Machines	111	5,445,644	129	3,810,698	669	28,405,242	178	7,923,077
Bending & Forming Machines	108	5,331,914	257	9,068,216	822	37,667,244	125	4,440,766
Presses	96	6,098,800	210	6,552,960	991	37,914,887	154	10,425,441
Forging Machines	40	4,435,634	40	5,388,723	142	22,709,215	40	3,738,610
Other Metal Forming	223	22,718,552	234	11,390,564	1,374	72,414,933	340	8,244,762
TOTAL	7,351	103,038,844	8,681	105,367,964	43,669	551,458,730	8,391	86,669,510

1991 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1990 YTD Units	JUNE 1990 YTD Value	% CHANGE MAY'91 - JUNE'91 Units	% CHANGE MAY'91 - JUNE'91 Value	% CHANGE JUNE'90 - JUNE'91 Units	% CHANGE JUNE'90 - JUNE'91 Value	% CHANGE YTD'90 - YTD'91 Units	% CHANGE YTD'90 - YTD'91 Value
Used & Rebuilt & Under $2,500	30,162	81,314,028	14.9%	4.1%	2.4%	-15.9%	14.1%	-1.8%
Boring Machines	93	9,258,371	222.2	202.8	3.6	238.8	-23.7	-15.7
Drilling Machines	580	9,269,045	124.7	18.6	51.7	84.4	8.8	31.6
Gear Cutting Machines	120	24,702,476	7.7	64.5	82.6	41.5	30.0	57.5
Grinding Machines	1,764	64,114,799	36.8	36.3	46.6	119.2	0.9	-9.6
Horizontal Lathes NC	240	26,059,215	31.6	24.0	-44.4	-41.1	-33.8	-31.5
Vertical Lathes NC	31	2,686,358	-77.8	-81.8	100.0	71.4	-32.3	-38.0
Lathes Non-NC	392	9,346,234	8.9	66.8	-42.4	57.7	-29.8	-14.2
Milling Machines	235	17,458,885	28.1	34.2	461.5	1,041.6	14.5	31.3
Machining Centers	237	37,452,946	-35.1	-53.4	-38.5	-56.9	-32.5	-27.3
Station Type Machines	50	20,821,899	50.0	-15.7	NA	NA	-40.0	56.5
Other Metal Cutting	2,121	41,824,124	-19.9	10.6	-27.8	43.2	-19.7	8.4
Punching & Shearing Machines	834	38,061,653	16.2	-30.0	-27.5	-51.9	-19.8	-25.4
Bending & Forming Machines	834	29,629,910	138.0	70.1	105.6	104.2	-1.4	27.1
Presses	1,294	58,746,680	118.8	7.4	36.4	-37.1	-23.4	-35.5
Forging Machines	206	24,110,286	0.0	21.5	0.0	44.1	-31.1	-5.8
Other Metal Forming	1,708	52,151,624	4.9	-49.9	-31.2	38.2	-19.6	38.9
TOTAL	40,901	547,008,533	18.1	2.3	3.5	21.6	6.8	0.8

1991 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	91,842	16,332,717
Boring Machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling Machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear Cutting Machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding Machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
Horizontal Lathes NC	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
Vertical Lathes NC	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Lathes Non-NC	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling Machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining Centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station Type Machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other Metal Cutting	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & Shearing Machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & Forming Machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging Machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other Metal Forming	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

PRODUCT TYPES	MAY 1991		JUNE 1991		JUNE 1991 YTD		JUNE 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	61,461	13,487,177	60,137	11,892,444	443,546	85,405,926	85,374	12,270,934
Boring Machines	53	7,001,111	55	3,314,472	350	29,118,860	33	4,123,015
Drilling Machines	79	6,287,879	146	3,825,684	645	26,249,345	110	2,955,449
Gear Cutting Machines	91	4,865,147	57	3,552,435	247	28,148,894	14	2,742,090
Grinding Machines	515	14,511,571	382	13,752,160	3,072	116,095,986	751	21,054,909
Horizontal Lathes NC	197	20,692,781	196	20,231,721	1,326	138,126,364	257	26,221,605
Vertical Lathes NC	2	1,159,139	6	908,254	56	12,235,337	10	1,453,386
Lathes Non-NC	442	10,258,079	402	8,630,438	2,535	44,049,910	758	16,925,801
Milling Machines	226	5,441,990	328	6,999,359	1,840	42,428,614	481	7,074,128
Machining Centers	199	40,498,256	231	62,377,569	1,291	241,575,257	269	26,963,021
Station Type Machines	16	13,375,688	8	1,595,456	66	26,769,065	4	4,151,942
Other Metal Cutting	252	18,837,312	314	9,426,321	1,814	87,630,587	302	13,417,230
Punching & Shearing Machines	109	4,442,498	74	5,337,144	498	26,879,971	165	6,624,692
Bending & Forming Machines	124	7,388,462	129	5,919,854	894	40,739,587	181	8,443,572
Presses	301	9,718,955	131	5,872,448	1,069	101,302,328	74	14,834,727
Forging Machines	152	6,220,779	69	5,986,386	422	32,003,970	85	3,437,927
Other Metal Forming	172	10,036,703	180	9,024,713	1,388	74,339,843	186	10,134,241
TOTAL	64,391	194,223,527	62,845	178,646,878	461,059	1,153,099,844	89,054	182,828,669

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JUNE 1990 YTD Units	JUNE 1990 YTD Value	% CHANGE MAY'91 - JUNE'91 Units	% CHANGE MAY'91 - JUNE'91 Value	% CHANGE JUNE'90 - JUNE'91 Units	% CHANGE JUNE'90 - JUNE'91 Value	% CHANGE YTD'90 - YTD'91 Units	% CHANGE YTD'90 - YTD'91 Value
Used & Rebuilt & Under $2,500	461,545	75,296,705	-2.2%	-11.8%	-29.6%	-3.1%	-3.9%	13.4%
Boring Machines	281	15,640,666	3.8	-52.7	66.7	-19.6	24.6	86.2
Drilling Machines	712	20,039,737	84.8	-39.2	32.7	29.4	-9.4	31.0
Gear Cutting Machines	258	21,155,208	-37.4	-27.0	307.1	29.6	-4.3	33.1
Grinding Machines	4,325	130,945,818	-25.8	-5.2	-49.1	-34.7	-29.0	-11.3
Horizontal Lathes NC	1,691	161,715,294	-0.5	-2.2	-23.7	-22.8	-21.6	-14.6
Vertical Lathes NC	70	12,025,727	200.0	-21.6	-40.0	-37.5	-20.0	1.7
Lathes Non-NC	4,313	63,722,900	-9.0	-15.9	-47.0	-49.0	-41.2	-30.9
Milling Machines	2,886	40,425,343	45.1	28.6	-31.8	-1.1	-36.2	5.0
Machining Centers	1,725	201,686,176	16.1	54.0	-14.1	131.3	-25.2	19.8
Station Type Machines	94	28,078,217	-50.0	-88.1	100.0	-61.6	-29.8	-4.7
Other Metal Cutting	2,518	85,699,720	24.6	-50.0	4.0	-29.7	-28.0	2.3
Punching & Shearing Machines	914	35,745,109	-32.1	20.1	-55.2	-19.4	-45.5	-24.8
Bending & Forming Machines	1,188	42,309,221	4.0	-19.9	-28.7	-29.9	-24.7	-3.7
Presses	1,429	43,432,455	-56.5	-39.6	77.0	-60.4	-25.2	133.2
Forging Machines	507	30,654,277	-54.6	-3.8	-18.8	74.1	-16.8	4.4
Other Metal Forming	1,333	66,961,454	4.7	-10.1	-3.2	-10.9	4.1	11.0
TOTAL	485,789	1,075,534,027	-2.4	-8.0	-29.4	-2.3	-5.1	7.2

U.S. EXPORTS
Metal Cutting Machine Tools - June 91

RELEASED: August 28, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	71	5145	6	395
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	44	6281	5	606
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	10	2218	0	0
100035	Horizontal machining centers, ATC	25	9205	6	921
100045	Machining centers, n.e.c.	81	9527	13	1134
200010	Unit construction mach. (single station transfer), NC	5	2147	3	1673
200090	Unit construction mach. (single station transfer), non-NC	8	2495	2	210
300010	Multi-station transfer machines, NC	8	14559	0	0
300090	Multi-station transfer machines, non-NC	8	13350	1	766
8458110010	Horizontal lathes, multiple spindle, NC	17	2631	5	561
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	109	9185	19	1652
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3303	1	161
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	2728	0	0
190030	Horizontal engine or toolroom lathes, non-NC	22	254	7	62
190050	Automatic bar and/or chucking mach., single spindle, non-NC	14	134	4	50
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	31	1720	5	230
190090	Horizontal lathes, n.e.c., non-NC	145	4034	29	1798
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	20	1403	2	108
991050	Vertical turret lathes, non-NC	26	401	2	30
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	37	1478	2	93
8459100000	Way-type unit head machines	1	38	0	0
210080	Other drilling machines, NC	101	7552	18	1302
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	13	246	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	17	609	3	23
290090	Drilling machines, n.e.c., non-NC	500	3793	161	771
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	2971	0	0
310070	Boring-milling machines, n.e.c., NC	14	960	1	42
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	113	1	80
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	10	252	6	115
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	24	1161	12	773
400070	Boring machines, n.e.c., NC	1	148	0	0
400080	Boring machines, n.e.c., non-NC	15	1805	9	1447
510080	Milling machines, knee type, NC	12	984	1	51
590030	Milling machines, knee type, non-NC	62	2350	9	261
610080	Milling machines, excluding knee type, n.e.c., NC	41	15668	11	5143
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0	0	0
690070	Milling machines, bed type, non-NC	1	37	0	0
690090	Milling machines, n.e.c., non-NC	153	3888	52	1435
700020	Threading or tapping machines, n.e.c., NC	45	1969	5	120
700080	Threading or tapping machines, n.e.c., non-NC	138	5068	25	1890
8460110080	Flat surface grinding machines, NC	22	2986	7	1099
190010	Flat surface grinding mach., recip.-table type, non-NC	46	676	26	440
190050	Flat surface grinding machines, n.e.c., non-NC	21	2494	13	1506
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	24934	15	3632
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	17	2798	9	1391
290030	Grinding machines, internal cylindrical, non-NC	9	346	2	109
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	174	5877	29	901
310080	Sharpening machines (tool & cutter grinding), NC	15	1315	2	100
390050	Sharpening machines (tool & cutter grinding), non-NC	516	4688	105	681
400060	Honing or lapping machines, NC	1	50	1	50
400080	Honing or lapping machines, non-NC	297	3940	76	783
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	582	7784	105	1908
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	87	2581	8	584
200010	Shaping or slotting machines, NC	9	1050	6	827
200090	Shaping or slotting machines, non-NC	25	667	7	237
300060	Broaching machines, NC	2	338	0	0
300080	Broaching machines, non-NC	25	976	0	0
401050	Gear hobbers	40	3188	12	1235
401070	Gear shapers	5	602	2	93
401090	Gear cutting machines, n.e.c.	66	29847	24	9474
405060	Gear grinding or finishing machines	45	5258	4	56
500050	Sawing or cutting-off machines, NC	40	2385	4	384
500090	Sawing or cutting-off machines, non-NC	841	10251	124	1642
9000000001	Metal cutting machine tools, n.e.c.	420	14918	88	3051
9800000001	Used or rebuilt machine tools	2698	31332	381	5094
9900000001	Machine tools valued at less than $3,025	21666	12611	4563	2478
	Cutting Total			6039	61661
	Y-T-D Cutting Total	29618	316437		
	NC Y-T-D Cutting Total*	930	140142		

Please see notes on last page
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U.S. EXPORTS
Metal Cutting Machine Tools - June 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	173
8457100015	0	0	0	0	1	167	0	0	1	183
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	6	921
100045	2	170	0	0	0	0	0	0	3	382
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	82
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	4	50
190070	0	0	0	0	0	0	0	0	1	87
190090	0	0	0	0	0	0	0	0	2	152
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	19	0	0
995090	0	0	0	0	0	0	0	0	1	53
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	2	13
290090	0	0	0	0	0	0	0	0	103	469
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	1	80
390050	0	0	0	0	0	0	0	0	3	97
400040	0	0	0	0	0	0	0	0	0	0
400050	1	14	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	570
510080	0	0	0	0	0	0	0	0	0	0
590030	1	19	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	900	6	1432
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	5	86
700020	0	0	0	0	1	22	0	0	2	66
700080	0	0	0	0	0	0	0	0	1	11
8460110080	0	0	0	0	0	0	0	0	2	906
190010	0	0	1	138	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	2	117
210080	0	0	0	0	0	0	0	0	1	292
290010	0	0	0	0	0	0	5	771	3	170
290030	0	0	0	0	0	0	1	65	0	0
290050	0	0	0	0	0	0	0	0	2	11
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	34
400060	0	0	0	0	0	0	1	50	0	0
400080	0	0	0	0	0	0	0	0	2	18
900060	0	0	0	0	0	0	0	0	0	0
900080	2	12	1	7	0	0	0	0	26	237
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	5	50
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	9	480	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	14
500050	0	0	0	0	0	0	0	0	3	218
500090	1	11	0	0	0	0	0	0	10	72
9000000001	0	0	0	0	0	0	3	35	7	39
9800000001	13	352	0	0	0	0	0	0	77	801
9900000001	148	100	0	0	0	0	2	3	262	270
Month Tot	168	677	2	145	11	669	14	1841	556	8154
Y-T-D Tot	483	2701	53	638	662	6242	256	6542	2972	42660
NC YTD Tot*	5	1124	0	0	38	4115	27	4098	157	26123

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U.S. EXPORTS
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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	4	222	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	210	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	3	341	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	3	83	0	0
190090	0	0	1	134	7	23	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	40	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	9	907	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	138	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	20	238	0	0	0	0
190050	3	700	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	665	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	1	44	0	0	0	0
290050	0	0	0	0	0	0	12	417	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	9	57	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	3	26	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	6	40	7	629	1	9	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	1	8	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	284	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	4	919	2	869	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	24	0	0	4	41	0	0	0	0
9000000001	1	353	0	0	0	0	0	0	0	0
9800000001	0	0	2	20	9	78	1	10	0	0
9900000001	18	19	116	85	407	150	3	5	0	0
Month Tot	24	1135	131	646	488	4613	22	1393	0	0
Y-T-D Tot	489	14539	907	10354	2111	37703	335	7094	23	1294
NC YTD Tot*	28	9646	29	6443	147	24488	4	1614	1	31

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U.S. EXPORTS
Metal Cutting Machine Tools - June 91

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	1	82	0	0	2	174	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	6	426
200010	0	0	0	0	0	0	0	0	3	1673
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	4	479
110030	0	0	5	599	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	6	46
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	1	60	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	11	1436
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	2	108
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	5	129	1	57
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	47	11	49	39	175	4	15
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	4	0	0	2	14
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	3	458	0	0	0	0	0	0	4	420
510080	0	0	0	0	0	0	0	0	1	51
590030	1	25	2	37	0	0	0	0	0	0
610080	0	0	0	0	2	2707	0	0	2	104
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	1	21	38	960	0	0	4	24
700020	0	0	0	0	0	0	0	0	2	33
700080	0	0	0	0	1	80	0	0	11	55
8460110080	0	0	1	73	0	0	0	0	4	120
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	6	978	4	803	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	10	185
310080	0	0	0	0	2	100	0	0	0	0
390050	0	0	0	0	40	258	0	0	44	298
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	63	670	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	25	2	337	12	141	0	0	8	91
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	3	497	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	1	442	0	0	0	0	1	30
401070	0	0	0	0	0	0	0	0	0	0
401090	1	207	14	6713	0	0	0	0	2	161
405060	0	0	0	0	0	0	0	0	2	17
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	28	264	6	107	0	0	9	143
9000000001	3	91	7	417	13	158	0	0	15	86
9800000001	1	3	6	231	1	39	0	0	176	1622
9900000001	80	112	1072	260	291	151	9	6	674	525
Month Tot	92	1003	1150	10975	487	6401	53	310	1008	8218
Y-T-D Tot	645	7507	3765	34058	1925	22588	104	1636	4842	29157
NC· YTD Tot*	10	3532	77	8631	35	8425	5	129	113	11535

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U.S. EXPORTS
Metal Cutting Machine Tools - June 91

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	210
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	1	10	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	2	94	0	0	1	17	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	15
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	5	64
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	165	0	0	1	98	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	27	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	6	51	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	1	6	1	10	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	4	513	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	53	3	91	0	0	0	0	3	36
9000000001	0	0	16	671	0	0	12	141	5	990
9800000001	15	20	9	653	0	0	9	121	1	238
9900000001	81	12	305	81	67	10	26	19	11	13
Month Tot	106	136	342	1799	68	20	53	909	29	1566
Y-T-D Tot	415	3150	1564	4668	173	1009	609	3504	732	6008
NC YTD Tot*	5	1129	15	1164	1	27	16	2225	16	2073

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - June 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	1	57	0	0	0	0	1	98
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	766	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	11	713	0	0	0	0	0	0
110050	0	0	1	161	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	16	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	16	1	10	0	0	2	24	1	4
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	1	12	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	3	16
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	42
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	11	759
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	1	37	0	0	0	0	1	31
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	328
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	5	606	6	1002
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	8	689	0	0	0	0	0	0
210080	0	0	2	893	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	450
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	18	1	7
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	8
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	10	0	0	0	0	1	8
900060	0	0	0	0	0	0	0	0	0	0
900080	2	31	13	116	0	0	12	126	9	90
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	4	80	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	2	315
200090	0	0	0	0	0	0	0	0	2	187
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	2	93
401090	0	0	0	0	1	606	0	0	0	0
405060	0	0	0	0	0	0	1	26	0	0
500050	0	0	1	167	0	0	0	0	0	0
500090	0	0	32	519	0	0	0	0	23	282
9000000001	0	0	1	5	0	0	2	29	3	36
9800000001	0	0	22	264	0	0	3	18	36	625
9900000001	152	7	242	134	0	0	29	29	568	489
Month Tot	158	54	343	3882	2	1373	56	874	676	4870
Y-T-D Tot	495	1637	2163	15650	152	16569	488	6236	3255	33294
NC YTD Tot*	13	800	96	9305	4	324	17	1724	71	11436

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

RELEASED: August 28, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	164	3804	13	120
8462100030	Headers and upsetters, including cold headers	25	8671	10	3293
100050	Forging or die stamping machines, and hammers, n.e.c.	117	14039	30	2096
210080	Bending, folding, straight. or flat. mach., incl presses, NC	137	14899	33	2034
290030	Press brakes, non-NC	64	2452	11	347
290040	Bending rolls, non-NC	35	962	3	90
290050	Bending, folding, straight., or flat., n.e.c., non-NC	586	19354	210	6597
310080	Shearing machines, NC	54	4435	12	557
390050	Shearing machines, non-NC	149	4169	18	618
410080	Punching or notching mach., incl. comb. punch & shear, NC	62	10011	10	1352
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	404	9791	89	1284
910060	Hydraulic presses, NC	12	476	1	12
910090	Hydraulic presses, non-NC	293	6407	43	1003
990030	Presses, n.e.c., NC	120	5706	47	1684
990040	Presses, mechanical, non-NC	103	9074	22	1078
990060	Presses, n.e.c., non-NC	463	16252	97	2776
8463100080	Draw benches for bars, tubes, profiles, wire or the like	140	5499	44	2534
200080	Thread rolling machines	23	713	2	115
300080	Machines for working wire	380	11832	63	1877
900080	Metal forming machine tools, n.e.c.	667	50568	112	6745
9800000002	Used or rebuilt machine tools	1878	29473	468	6560
9900000002	Machine tools valued at less than $3,025	8175	6437	1304	936
	Forming Total			2642	43707
	Y-T-D Forming Total	14051	235021		
	NC Y-T-D Forming Total	385	35527		
	Cutting and Forming Totals:				
	Monthly Total			8681	105368
	Y-T-D Total	43669	551459		
	NC Y-T-D Total*	1315	175669		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	335172	0	59160
2000000000	Parts for working rubber or plastics - heading 8477	0	131091	0	17504
2710003070	Quenching or cutting oils	0	3194	0	461
8428900010	Industrial robots for lifting, handling, loading or unload	352	3457	116	1816
8431390090	Parts industrial robots, handling and loading - heading 8428	0	51432	0	9723
8456100000	Laser, light or photon beam for working any material	326	20092	51	2975
200000	Ultrasonic process for working any material	38	910	6	180
8477106010	Injection molding mach., for rubber or oth. thermosetting	96	7085	14	1085
106070	Injection molding machines, for thermoplastics	195	23804	31	3589
200005	Extruders; rubber or other thermosetting mat., single screw	66	5124	21	1105
200015	Extruders; rubber or thermosetting, other incl. multi. screw	85	7403	13	1245
200030	Extruders; thermoplastics, single screw	245	10678	56	2026
200060	Extruders; thermoplastics, other incl. multi. screw	56	6091	6	165
300000	Blow molding machines	302	18691	33	1766
400000	Vacuum-molding and other thermoforming machines	601	4430	175	1657
510010	Machines for molding or retreading pneumatic tires	1736	8433	152	1810
510090	Machines for molding or otherwise forming inner tubes	325	8273	50	1344
590000	Machines for molding or otherwise forming n.e.c.	882	14248	71	1898
600000	Machines for working rubber or plastics n.e.c.	2459	36664	547	5931
8479899040	Industrial robots, n.e.c.	2767	32329	510	6072
908040	Industrial robot parts	0	18464	0	3370
8537100030	Numerical controls for controlling machine tools	831	11922	166	2350
9024100000	Machines and appliances for testing metals	0	34353	0	5069
9031100000	Machines for balancing mechanical parts	0	13454	0	3848
300000	Profile projectors	0	2305	0	264
9032810040	Industrial process control instr., hydraulic or pneumatic	490731	24755	63684	3535

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

June 91

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	2	1261	0	0
100050	0	0	0	0	0	0	0	0	6	497
210080	1	33	0	0	1	48	0	0	5	273
290030	0	0	0	0	0	0	0	0	3	52
290040	0	0	0	0	0	0	0	0	0	0
290050	31	450	0	0	0	0	0	0	23	342
310080	0	0	0	0	0	0	0	0	5	264
390050	0	0	0	0	0	0	0	0	4	66
410080	0	0	0	0	0	0	0	0	1	139
490050	1	28	0	0	0	0	0	0	31	388
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	1	93
990030	0	0	0	0	19	506	0	0	4	277
990040	0	0	0	0	0	0	0	0	0	0
990060	1	27	0	0	0	0	0	0	3	200
8463100080	0	0	0	0	0	0	0	0	1	42
200080	0	0	0	0	0	0	0	0	1	88
300080	0	0	0	0	0	0	0	0	4	75
900080	0	0	0	0	17	433	1	10	12	104
9800000002	1	18	0	0	1	18	0	0	41	1606
9900000002	83	69	0	0	18	5	0	0	196	175
Month Tot	118	625	0	0	56	1010	3	1271	341	4680
Y-T-D Tot	262	1998	8	188	232	1804	111	4023	1733	26427
NC YTD Tot	2	151	0	0	20	554	5	585	51	6537
C&F Month	286	1302	2	145	67	1679	17	3112	897	12834
C&F Y-T-D	745	4699	61	826	894	8046	367	10565	4705	69087
C&F NC YTD*	7	1275	0	0	58	4669	32	4683	208	32659

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	856	0	106	0	1424	0	746	0	9682
2000000000	0	440	0	62	0	611	0	235	0	6049
2710003070	0	10	0	0	0	11	0	0	0	142
8428900010	0	0	0	0	0	0	0	0	5	54
8431390090	0	715	0	18	0	11	0	38	0	858
8456100000	0	0	0	0	0	0	0	0	2	123
200000	0	0	0	0	0	0	0	0	1	12
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	8	1902
200005	0	0	0	0	0	0	0	0	4	208
200015	0	0	0	0	0	0	0	0	8	1131
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	1	16
300000	0	0	0	0	0	0	0	0	1	429
400000	0	0	0	0	0	0	0	0	2	524
510010	0	0	0	0	0	0	2	50	10	251
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	0	0	0	0	14	268
800000	0	0	0	0	0	0	0	0	298	2364
8479899040	0	0	0	0	1	10	0	0	263	2114
908040	0	49	0	0	0	82	0	0	0	1844
8537100030	2	19	0	0	0	0	7	92	8	96
9024100000	0	13	0	40	0	31	0	48	0	300
9031100000	0	0	0	0	0	0	0	0	0	1767
300000	0	0	0	0	0	0	0	0	0	19
9032810040	471	36	186	9	70	8	0	0	2939	417

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	1	679	0	0	0	0	0	0
100050	0	0	16	1057	0	0	0	0	0	0
210080	0	0	1	573	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	8	178	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	3	455	0	0	0	0
490050	0	0	1	10	5	107	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	5	210	2	62	0	0	1	11	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	10	442	0	0	0	0
990060	0	0	0	0	2	430	0	0	0	0
8463100080	0	0	1	10	20	150	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	11	235	3	47	0	0	0	0
900080	0	0	5	1101	4	258	7	98	2	47
9800000002	158	1126	4	26	2	195	0	0	5	61
9900000002	0	0	49	40	82	71	1	3	0	0
Month Tot	163	1336	91	3792	139	2334	9	112	7	108
Y-T-D Tot	279	17332	566	14008	984	24757	59	790	95	3438
NC YTD Tot	15	1430	31	2334	28	3276	1	140	0	0
C&F Month	187	2472	222	4438	627	6947	31	1505	7	108
C&F Y-T-D	768	31872	1473	24361	3095	62460	394	7883	118	4732
C&F NC YTD*	43	11076	60	8777	175	27764	5	1754	1	31

Other Manufacturing Technology

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	440	0	4017	0	5621	0	232	0	593
2000000000	0	51	0	291	0	866	0	156	0	111
2710003070	0	0	0	0	0	0	0	0	0	15
8428900010	19	1642	0	0	0	0	0	0	0	0
8431390090	0	8	0	165	0	199	0	0	0	436
8456100000	0	0	19	435	3	388	0	0	3	83
200000	0	0	1	80	0	0	0	0	0	0
8477106010	0	0	0	0	1	73	0	0	0	0
106070	0	0	1	93	5	423	0	0	0	0
200005	0	0	0	0	4	91	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	9	232	18	389	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	1	3	0	0	0	0
400000	1	81	14	120	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	1	205	0	0	15	5
590000	0	0	4	54	0	0	0	0	0	0
800000	0	0	2	251	3	40	0	0	0	0
8479899040	1	10	71	571	97	580	0	0	0	0
908040	0	0	0	111	0	92	0	0	0	0
8537100030	0	0	12	202	17	242	0	0	0	0
9024100000	0	20	0	50	0	419	0	71	0	0
9031100000	0	0	0	0	0	3	0	0	0	0
300000	0	0	0	69	0	20	0	0	0	0
9032810040	1	5	2937	157	5970	354	74	4	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	3	27
8462100030	3	221	4	1132	0	0	0	0	0	0
100050	1	71	0	0	2	93	0	0	1	45
210080	0	0	1	58	0	0	0	0	5	238
290030	0	0	1	15	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	8
290050	2	415	1	16	1	268	0	0	8	1837
310080	0	0	3	162	0	0	0	0	1	39
390050	4	32	1	33	0	0	0	0	9	488
410080	0	0	0	0	0	0	0	0	1	280
490050	2	40	0	0	5	48	0	0	12	190
910060	0	0	0	0	0	0	0	0	1	12
910090	0	0	0	0	2	53	0	0	23	275
990030	0	0	1	52	19	608	0	0	0	0
990040	0	0	0	0	0	0	0	0	10	425
990060	0	0	5	131	1	13	0	0	67	1028
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	27	0	0	0	0	0	0
300080	1	13	2	26	6	118	0	0	12	69
900080	0	0	13	268	2	401	0	0	13	342
9800000002	3	156	3	674	4	71	0	0	172	1427
9900000002	66	22	69	48	14	12	26	3	139	148
Month Tot	82	969	105	2641	56	1684	26	3	478	6878
Y-T-D Tot	291	4841	1003	20040	502	11797	93	814	2857	29376
NC YTD Tot	3	322	30	3815	30	2484	1	29	43	4362
C&F Month	174	1972	1255	13616	543	8085	79	313	1486	15097
C&F Y-T-D	936	12349	4768	54097	2427	34385	197	2449	7699	58533
C&F NC YTD*	13	3853	107	12446	65	10908	6	158	156	15897

Other Manufacturing Technology

1000000000	0	1201	0	5121	0	2633	0	210	0	4350
2000000000	0	158	0	1297	0	256	0	120	0	1380
2710003070	0	7	0	43	0	7	0	4	0	84
8428900010	0	0	3	55	0	0	0	0	0	0
8431390090	0	9	0	600	0	742	0	3	0	386
8456100000	4	79	2	706	0	0	0	0	1	198
200000	1	33	1	14	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	10	603
106070	0	0	0	0	0	0	0	0	11	706
200005	0	0	0	0	0	0	0	0	13	806
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	3	69	8	393	0	0	3	573
200060	0	0	0	0	0	0	0	0	2	57
300000	0	0	0	0	0	0	0	0	1	47
400000	0	0	3	13	95	816	0	0	3	54
510010	7	238	21	412	0	0	0	0	14	294
510090	13	318	0	0	4	104	0	0	1	12
590000	5	75	4	84	0	0	2	37	14	364
800000	0	0	42	74	4	6	0	0	97	1227
8479899040	2	305	17	133	0	0	0	0	11	120
908040	0	8	0	272	0	8	0	0	0	275
8537100030	4	46	8	104	9	121	1	19	1	11
9024100000	0	103	0	1047	0	714	0	0	0	217
9031100000	0	6	0	36	0	980	0	0	0	86
300000	0	14	0	20	0	5	0	0	0	0
9032810040	3332	264	544	263	427	158	239	12	575	64

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	9	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	23
290050	1	4	1	6	0	0	2	46	1	46
310080	2	59	0	0	0	0	0	0	0	[illegible]
390050	0	0	0	0	0	0	0	0	0	[illegible]
410080	0	0	1	60	0	0	0	0	1	144
490050	0	0	1	45	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	4	142	0	0	1	8
990030	1	47	0	0	0	0	0	0	0	0
990040	2	211	0	0	0	0	0	0	0	0
990060	0	0	1	18	0	0	0	0	0	0
8463100080	0	0	0	0	18	2286	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	4	196	2	45	0	0
900080	0	0	0	0	0	0	0	0	4	289
9800000002	0	0	9	108	0	0	3	9	0	0
9900000002	38	20	17	15	0	0	13	11	0	0
Month Tot	46	351	30	252	26	2623	20	110	8	509
Y-T-D Tot	659	6187	220	3249	70	3362	208	1298	189	4657
NC YTD Tot	14	1432	11	751	1	55	3	181	6	564
C&F Month	152	487	372	2051	94	2643	73	1019	37	2075
C&F Y-T-D	1074	9337	1784	7917	243	4371	817	4802	921	10666
C&F NC YTD*	19	2562	26	1916	2	82	19	2406	22	2638

Other Manufacturing Technology

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1177	0	1526	0	1185	0	391	0	1053
2000000000	0	182	0	248	0	90	0	279	0	72
2710003070	0	0	0	3	0	0	0	0	0	41
8428900010	0	0	7	25	0	0	82	41	0	0
8431390090	0	90	0	507	0	13	0	138	0	4
8456100000	2	25	1	19	0	0	0	0	2	194
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	2	222	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	0	0
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	39	12
510010	26	154	0	0	2	38	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	4	13	0	0	0	0
800000	0	0	19	24	7	124	1	17	5	771
8479899040	16	98	0	0	0	0	4	387	0	0
908040	0	4	0	0	0	5	0	142	0	133
8537100030	0	0	18	259	2	28	0	0	3	25
9024100000	0	48	0	197	0	326	0	51	0	48
9031100000	0	0	0	51	0	654	0	0	0	28
300000	0	0	0	9	0	0	0	0	0	0
9032810040	5902	387	2765	155	3096	164	171	9	75	7

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	5	22	0	0	0	0	1	7	2	55
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	2	200	0	0	1	64	1	69
210080	2	97	2	60	0	0	0	0	15	655
290030	0	0	7	280	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	59
290050	0	0	123	1717	0	0	0	0	8	1271
310080	0	0	1	32	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	2	160	0	0	0	0	1	115
490050	0	0	19	184	0	0	0	0	12	244
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	4	149
990030	0	0	3	194	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	29	3	613	0	0	1	18	12	269
8463100080	0	0	4	46	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	4	810	0	0	1	26	2	51	11	168
900080	16	1885	9	234	0	0	0	0	7	1275
9800000002	0	0	7	96	0	0	6	349	49	620
9900000002	0	0	84	68	0	0	120	17	289	210
Month Tot	28	2842	266	3884	1	26	131	508	412	5157
Y-T-D Tot	184	5109	971	14526	1	26	221	1325	2253	33651
NC YTD Tot	7	817	45	1976	0	0	1	41	37	3692
C&F Month	186	2896	609	7766	3	1398	187	1382	1088	10027
C&F Y-T-D	679	6746	3134	30176	153	16595	709	7561	5508	66945
C&F NC YTD*	20	1617	141	11282	4	324	18	1764	108	15129

Other Manufacturing Technology

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	457	0	5454	0	9	0	894	0	9781
2000000000	0	126	0	826	0	0	0	881	0	2718
2710003070	0	6	0	0	0	0	0	0	0	87
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	1446	0	121	0	0	0	686	0	2531
8456100000	0	0	4	151	0	0	0	0	8	574
200000	0	0	2	40	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	3	409
106070	0	0	0	0	0	0	0	0	4	242
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	5	115
200030	0	0	4	106	0	0	0	0	11	264
200060	1	15	1	15	0	0	0	0	1	63
300000	1	248	8	603	0	0	0	0	21	435
400000	0	0	0	0	0	0	0	0	18	37
510010	0	0	1	80	0	0	0	0	69	292
510090	0	0	0	0	0	0	1	119	15	581
590000	0	0	17	932	0	0	3	5	4	66
800000	0	0	18	275	0	0	0	0	51	761
8479899040	0	0	18	291	0	0	1	4	8	1449
908040	0	0	0	104	0	0	0	0	0	239
8537100030	0	0	47	671	0	0	1	11	26	403
9024100000	0	0	0	454	0	0	0	5	0	867
9031100000	0	19	0	33	0	0	0	22	0	161
300000	0	0	0	106	0	0	0	0	0	0
9032810040	18706	56	4661	421	0	0	698	59	9845	527

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	2	315	0	0	2	315
Czechoslovakia	0	0	0	0	0	0
Denmark	6	84	12	11	18	94
Finland	2	3	23	119	25	122
Greece	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	5	33	17	1059	22	1091
Luxembourg	0	0	0	0	0	0
Norway	20	150	6	5	26	155
Poland	0	0	0	0	0	0
Portugal	0	0	0	0	0	0
Romania	0	0	0	0	0	0
Sweden	40	138	16	13	56	151
Turkey	3	1442	9	489	12	1931
Yugoslavia	0	0	0	0	0	0
Other Europe	0	0	0	0	0	0
TOTAL	1374	15557	810	16797	2184	32354
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	13	4	5	11	18	15
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	146	13	8	106	154	119
Dominican Rep	0	0	0	0	0	0
El Salvador	1	8	0	0	1	8
Guatemala	2	16	10	33	12	49
Haiti	0	0	0	0	0	0
Honduras	15	10	0	0	15	10
Jamaica	0	0	1	143	1	143
Panama	0	0	0	0	0	0
Trinidad	1	22	0	0	1	22
Oth N & C Am.	1	4	0	0	1	4
TOTAL	1743	16450	843	11852	2586	28302
SOUTH AMERICA						
Argentina	40	3	25	21	65	25
Bolivia	0	0	0	0	0	0
Chile	34	326	28	20	62	346
Colombia	35	122	5	130	40	253
Ecuador	12	53	28	57	40	110
Paraguay	0	0	0	0	0	0
Peru	0	0	33	33	33	33
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	191	3219	253	2042	444	5261
OCEANIA						
New Zealand	1	8	8	532	9	539
Oth Oceania	2	28	5	14	7	42
TOTAL	171	713	131	1171	302	1883

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	113	312	57	136	170	448
Iran	0	0	1	76	1	76
Iraq	0	0	0	0	0	0
Israel	27	44	16	448	43	492
Jordan	1	4	0	0	1	4
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	7	17	0	0	7	17
Pakistan	0	0	0	0	0	0
Philippines	44	65	26	658	70	722
Qatar	1	6	0	0	1	6
Saudi Arabia	32	138	45	398	77	535
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	16	257	15	57	31	314
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	1	48	1	48
TOTAL	2506	24474	593	11308	3099	35782
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	17	1063	1	276	18	1339
Ethiopia	0	0	1	9	1	9
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	3	60	3	60
South Africa	37	185	7	193	44	378
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	54	1247	12	538	66	1786

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. EXPORTS

Metal Cutting Machine Tools: January 91 - June 91

RELEASED: August 28, 1991

		TOTAL YTD	
		UNITS	$000
8456300000	Electro-discharge machines	71	5145
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	44	6281
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	10	2218
100035	Horizontal machining centers, ATC	25	9205
100045	Machining centers, n.e.c.	81	9527
200010	Unit construction mach. (single station transfer), NC	5	2147
200090	Unit construction mach. (single station transfer), non-NC	8	2495
300010	Multi-station transfer machines, NC	8	14559
300090	Multi-station transfer machines, non-NC	8	13350
8458110010	Horizontal lathes, multiple spindle, NC	17	2631
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	109	9185
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3303
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	13	2728
190030	Horizontal engine or toolroom lathes, non-NC	22	254
190050	Automatic bar and/or chucking mach., single spindle, non-NC	14	134
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	31	1720
190090	Horizontal lathes, n.e.c., non-NC	145	4034
911060	Vertical turret lathes, multiple spindle, NC	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	20	1403
991050	Vertical turret lathes, non-NC	26	401
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	37	1478
8459100000	Way-type unit head machines	1	38
210080	Other drilling machines, NC	101	7552
290040	Drilling machines, multiple spindle, non-NC	0	0
290050	Drilling machines, radial, non-NC	13	246
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	17	609
290090	Drilling machines, n.e.c., non-NC	500	3793
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	2971
310070	Boring-milling machines, n.e.c., NC	14	960
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	113
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	10	252
400040	Boring machines, vertical, NC	0	0
400050	Boring machines, vertical, non-NC	24	1161
400070	Boring machines, n.e.c., NC	1	148
400080	Boring machines, n.e.c., non-NC	15	1805
510080	Milling machines, knee type, NC	12	984
590030	Milling machines, knee type, non-NC	62	2350
610080	Milling machines, excluding knee type, n.e.c., NC	41	15668
690050	Milling machines, profile, dup., or die sinking, non-NC	0	0
690070	Milling machines, bed type, non-NC	1	37
690090	Milling machines, n.e.c., non-NC	153	3888
700020	Threading or tapping machines, n.e.c., NC	45	1969
700080	Threading or tapping machines, n.e.c., non-NC	138	5068
8460110080	Flat surface grinding machines, NC	22	2986
190010	Flat surface grinding mach., recip.-table type, non-NC	46	676
190050	Flat surface grinding machines, n.e.c., non-NC	21	2494
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	76	24934
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	17	2798
290030	Grinding machines, internal cylindrical, non-NC	9	346
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	174	5877
310080	Sharpening machines (tool & cutter grinding), NC	15	1315
390050	Sharpening machines (tool & cutter grinding), non-NC	516	4688
400060	Honing or lapping machines, NC	1	50
400080	Honing or lapping machines, non-NC	297	3940
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	582	7784
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	87	2581
200010	Shaping or slotting machines, NC	9	1050
200090	Shaping or slotting machines, non-NC	25	667
300060	Broaching machines, NC	2	338
300080	Broaching machines, non-NC	25	976
401050	Gear hobbers	40	3188
401070	Gear shapers	5	602
401090	Gear cutting machines, n.e.c.	66	29847
405060	Gear grinding or finishing machines	45	5258
500050	Sawing or cutting-off machines, NC	40	2385
500090	Sawing or cutting-off machines, non-NC	841	10251
9000000001	Metal cutting machine tools, n.e.c.	420	14918
9800000001	Used or rebuilt machine tools	2698	31332
9900000001	Machine tools valued at less than $3,025	21666	12611

	Cutting Total		
Please see notes on last page	Y-T-D Cutting Total	29618	316437
of the metal forming section.	NC Y-T-D Cutting Total*	930	140142

U.S. EXPORTS
Metal Cutting Machine Tools: January 91 - June 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	9	753
8457100015	0	0	0	0	13	1942	0	0	10	1435
100025	0	0	0	0	1	132	0	0	3	449
100035	0	0	0	0	3	842	0	0	10	2382
100045	2	170	0	0	0	0	2	114	21	1871
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	2099
300090	0	0	0	0	0	0	0	0	1	98
8458110010	0	0	0	0	0	0	1	332	5	479
110030	1	49	0	0	9	836	0	40	9	836
110050	1	399	0	0	1	118	0	0	4	423
110090	0	0	0	0	0	0	0	0	5	1160
190030	0	0	0	0	0	0	0	0	1	18
190050	0	0	0	0	0	0	0	0	12	113
190070	0	0	0	0	0	0	0	0	2	192
190090	1	8	0	0	0	0	7	90	18	594
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	214
991050	0	0	0	0	0	0	1	19	1	10
995090	0	0	0	0	0	0	0	0	8	304
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	3	67	0	0	6	369
290040	0	0	0	0	0	0	0	0	0	0
290050	1	10	0	0	0	0	0	0	7	56
290070	0	0	0	0	0	0	0	0	8	39
290090	1	5	0	0	1	149	1	61	201	976
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	391
310070	0	0	0	0	0	0	0	0	1	266
390040	0	0	0	0	0	0	0	0	1	80
390050	0	0	0	0	0	0	0	0	3	97
400040	0	0	0	0	0	0	0	0	0	0
400050	1	14	0	0	1	25	0	0	2	72
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	3	588
510080	0	0	0	0	0	0	0	0	4	607
590030	5	132	0	0	0	0	0	0	8	220
610080	0	0	0	0	0	0	1	900	21	4649
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	37
690090	1	12	0	0	1	26	0	0	14	605
700020	0	0	0	0	5	130	0	0	2	66
700080	5	200	0	0	5	387	2	115	19	298
8460110080	0	0	0	0	0	0	1	420	2	906
190010	0	0	1	138	0	0	1	15	1	11
190050	0	0	0	0	0	0	1	132	5	419
210080	0	0	0	0	0	0	1	333	7	4074
290010	0	0	0	0	0	0	5	771	5	456
290030	0	0	0	0	0	0	1	65	0	0
290050	0	0	0	0	0	0	5	407	20	355
310080	0	0	0	0	0	0	4	548	2	317
390050	1	8	0	0	0	0	22	196	62	589
400060	0	0	0	0	0	0	1	50	0	0
400080	5	57	1	16	4	41	0	0	11	134
900060	0	0	0	0	0	0	0	0	0	0
900080	7	60	3	40	4	49	3	19	124	1348
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	3	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	109
200090	0	0	0	0	0	0	0	0	10	142
300060	0	0	0	0	0	0	0	0	2	338
300080	0	0	0	0	0	0	0	0	7	160
401050	0	0	0	0	17	930	0	0	1	30
401070	0	0	1	409	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	1	8	0	0	0	0	0	0	15	1061
500050	0	0	0	0	3	49	0	0	21	1497
500090	3	30	0	0	1	9	0	0	113	1059
9000000001	1	506	0	0	0	0	19	1396	78	1111
9800000001	26	699	2	9	4	19	27	316	399	3993
9900000001	419	333	45	26	586	491	150	205	1663	1704
Tot	483	2701	53	638	662	6242	256	6542	2972	42660
Y-T-D Tot	483	2701	53	638	662	6242	256	6542	2972	42660
NC YTD Tot*	5	1124	0	0	38	4115	27	4098	157	26123

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools: January 91 - June 91

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	2	413	0	0	49	3213	0	0	0	0
8457100015	0	0	1	380	1	143	0	0	0	0
100025	0	0	1	535	0	0	1	427	0	0
100035	1	544	0	0	1	246	0	0	0	0
100045	1	38	4	304	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	6	820	1	585	0	0
300010	1	1050	0	0	6	11410	0	0	0	0
300090	1	1038	0	0	0	0	0	0	0	0
8458110010	0	0	1	851	0	0	0	0	0	0
110030	4	428	6	659	4	316	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	3	821	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	6	165	0	0
190090	1	7	1	134	9	44	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	40	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	35	57	4761	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	3	218	1	109	0	0	0	0
290090	0	0	7	31	0	0	68	308	1	5
310010	0	0	0	0	1	394	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	2	3466	3	787	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	15	1	200	0	0
700020	6	144	0	0	0	0	0	0	0	0
700080	0	0	0	0	4	309	0	0	0	0
8460110080	0	0	0	0	0	0	2	760	1	31
190010	0	0	0	0	20	238	0	0	0	0
190050	4	787	0	0	0	0	0	0	0	0
210080	4	1489	7	2633	5	2397	1	427	0	0
290010	0	0	2	853	0	0	0	0	0	0
290030	0	0	0	0	4	118	0	0	0	0
290050	13	377	0	0	15	466	12	417	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	9	57	75	489	86	559	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	11	238	15	167	8	164	40	423	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	21	30	851	50	1096	3	26	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	5	30	0	0	0	0
200010	0	0	0	0	1	15	0	0	0	0
200090	0	0	0	0	1	150	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	12	329	1	185	0	0	2	177	0	0
401050	0	0	0	0	15	1035	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	1	715	2	240	9	2992	4	2289	0	0
405060	0	0	0	0	9	1933	0	0	0	0
500050	0	0	0	0	2	330	0	0	0	0
500090	15	269	3	32	49	553	1	5	2	21
9000000001	6	1271	5	260	21	1270	6	99	0	0
9800000001	78	1023	48	653	229	1847	18	169	7	1228
9900000001	318	26	757	490	1453	802	83	58	12	10
Tot	489	14539	907	10354	2111	37703	335	7094	23	1294
Y-T-D Tot	489	14539	907	10354	2111	37703	335	7094	23	1294
NC YTD Tot*	28	9646	29	6443	147	24488	4	1614	1	31

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools: January 91 - June 91

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	38	1	51	0	0	5	359
8457100015	3	320	0	0	4	454	0	0	2	170
100025	0	0	0	0	1	116	0	0	1	240
100035	0	0	2	440	0	0	0	0	0	0
100045	1	35	1	290	1	655	0	0	34	3865
200010	0	0	1	335	0	0	0	0	4	1812
200090	0	0	1	1090	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	715	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	6	645
110030	1	75	13	1025	3	220	0	0	6	661
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	4	562
190030	0	0	3	84	0	0	0	0	13	109
190050	0	0	1	16	0	0	0	0	1	5
190070	0	0	11	510	5	311	0	0	1	250
190090	0	0	2	8	4	32	0	0	62	2457
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	1	261
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	13	893
991050	0	0	0	0	0	0	0	0	14	229
995090	0	0	0	0	0	0	0	0	22	869
8459100000	0	0	0	0	0	0	0	0	1	38
210080	0	0	6	617	1	84	5	129	5	430
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	8
290070	0	0	0	0	0	0	0	0	1	16
290090	4	17	3	53	13	57	39	175	80	558
310010	0	0	0	0	0	0	0	0	0	0
310040	2	2450	0	0	0	0	0	0	1	130
310070	0	0	0	0	0	0	0	0	4	261
390040	0	0	0	0	1	33	0	0	0	0
390050	0	0	0	0	1	4	0	0	5	122
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	2	46	0	0	0	0	1	13
400070	0	0	0	0	0	0	0	0	0	0
400080	3	458	0	0	0	0	0	0	8	677
510080	0	0	0	0	1	74	0	0	4	219
590030	1	25	4	165	1	20	1	45	5	222
610080	0	0	0	0	2	2707	0	0	4	228
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	8	173	62	1670	0	0	43	432
700020	0	0	2	312	1	215	0	0	5	69
700080	0	0	0	0	1	80	0	0	29	162
8460110080	0	0	3	424	4	139	0	0	6	197
190010	0	0	1	22	0	0	0	0	3	29
190050	0	0	1	231	1	148	0	0	1	88
210080	2	421	18	3969	13	3547	0	0	3	433
290010	0	0	0	0	0	0	0	0	2	130
290030	0	0	0	0	0	0	0	0	4	164
290050	0	0	7	301	11	522	0	0	36	463
310080	0	0	1	162	3	164	0	0	2	42
390050	0	0	69	558	64	414	7	47	56	403
400060	0	0	0	0	0	0	0	0	0	0
400080	10	142	15	301	113	1254	2	350	2	46
900060	0	0	2	53	0	0	0	0	1	24
900080	10	102	43	901	55	617	0	0	56	527
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	7	1165	3	60	0	0	7	106
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	28
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	10	0	0	1	11
401050	0	0	1	442	0	0	0	0	5	153
401070	0	0	0	0	0	0	0	0	0	0
401090	4	2256	26	11841	6	3548	0	0	3	231
405060	1	40	3	1797	1	23	4	178	3	30
500050	0	0	0	0	0	0	0	0	1	22
500090	5	129	177	2078	30	486	3	49	55	628
9000000001	5	328	32	1705	18	1474	0	0	45	409
9800000001	63	437	35	1843	78	2064	2	616	894	6138
9900000001	530	271	3263	1065	1420	622	41	48	3267	1880
Tot	645	7507	3765	34058	1925	22588	104	1636	4842	29157
Y-T-D Tot	645	7507	3765	34058	1925	22588	104	1636	4842	29157
NC YTD Tot*	10	3532	77	8631	35	8425	5	129	113	11535

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools: January 91 – June 91

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	68
8457100015	0	0	4	529	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	464	0	0	0	0	0	0	1	916
100045	1	310	0	0	0	0	0	0	1	47
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	63	0	0	0	0	2	172	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	6	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	35
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	53	0	0	0	0	0	0	6	427
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	3	217	1	10	0	0	0	0	0	0
290090	32	142	0	0	0	0	0	0	3	1045
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	15	503	1	29	2	41	1	174
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	35	1	15
700020	0	0	0	0	0	0	0	0	3	503
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	27	0	0	1	56
190010	0	0	0	0	0	0	0	0	5	64
190050	0	0	0	0	0	0	0	0	0	0
210080	1	240	0	0	0	0	4	1395	0	0
290010	1	100	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	6	543	1	165	6	200	1	98	2	336
310080	0	0	1	26	0	0	0	0	2	56
390050	2	9	6	40	0	0	2	12	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	9	67	0	0	4	20	6	97	2	27
900060	0	0	0	0	0	0	0	0	0	0
900080	10	134	6	47	4	36	13	120	8	200
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	7	2	16	0	0	0	0	2	13
200010	0	0	0	0	0	0	4	513	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	105	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	1	23	5	51
500050	0	0	0	0	0	0	5	128	0	0
500090	66	437	13	175	12	204	1	13	16	231
9000000001	0	0	27	1143	0	0	20	238	6	1003
9800000001	51	252	221	1396	31	440	71	414	21	449
9900000001	228	112	1266	514	114	53	474	198	643	292
Tot	415	3150	1564	4668	173	1009	609	3504	732	6008
Y-T-D Tot	415	3150	1564	4668	173	1009	609	3504	732	6008
NC YTD Tot*	5	1129	15	1164	1	27	16	2225	16	2073

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools: January 91 – June 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	97	0	0	0	0	0	0
8457100015	0	0	6	908	0	0	0	0	0	0
100025	0	0	1	112	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	5	339	0	0	2	175	1	98
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	4	11239	0	0	0	0
8458110010	0	0	0	0	4	324	0	0	0	0
110030	1	102	40	2751	0	0	3	266	0	0
110050	0	0	8	1709	0	0	6	654	0	0
110090	0	0	0	0	0	0	1	185	0	0
190030	0	0	3	35	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	6	293	0	0	0	0	0	0
190090	4	16	2	20	0	0	4	194	1	4
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	9	133	0	0	0	0	0	0
995090	0	0	0	0	0	0	2	84	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	5	283	1	43	0	0	3	206	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	104	0	0	1	58	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	11	0	0	0	0	3	16
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	90	1	42
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	11	759
400070	0	0	0	0	0	0	1	148	0	0
400080	0	0	0	0	0	0	1	82	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	2	77	0	0	0	0	1	31
610080	0	0	1	41	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	2	38	0	0	0	0	3	328
700020	0	0	4	100	0	0	0	0	0	0
700080	0	0	1	10	0	0	38	2343	6	1002
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	8	689	0	0	0	0	0	0
210080	0	0	6	2446	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	1	450
290030	0	0	0	0	0	0	0	0	0	0
290050	1	29	3	73	0	0	4	33	1	7
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	32	262	2	908	0	0	1	8
400060	0	0	0	0	0	0	0	0	0	0
400080	10	103	7	82	0	0	0	0	1	8
900060	0	0	0	0	0	0	0	0	0	0
900080	3	35	43	420	0	0	54	585	9	90
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	16	286	0	0	2	20	0	0
200010	0	0	0	0	0	0	0	0	2	315
200090	0	0	1	15	0	0	0	0	2	187
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	1	599	0	0	0	0
401070	0	0	0	0	0	0	0	0	2	93
401090	0	0	0	0	6	3381	0	40	0	0
405060	0	0	0	0	0	0	1	26	0	0
500050	2	50	4	267	0	0	0	0	0	0
500090	2	32	147	2052	0	0	10	199	23	282
9000000001	11	690	27	634	0	0	12	125	3	36
9800000001	30	217	135	965	13	39	65	413	36	625
9900000001	426	79	1639	640	122	80	277	312	568	489
Tot	495	1637	2163	15650	152	16569	488	6236	676	4870
Y-T-D Tot	495	1637	2163	15650	152	16569	488	6236	3255	33294
NC YTD Tot*	13	800	96	9305	4	324	17	1724	71	11436

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - June 91

RELEASED: August 28, 1991

Metal Forming Machine Tools		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	164	3804
8462100030	Headers and upsetters, including cold headers	25	8671
100050	Forging or die stamping machines, and hammers, n.e.c.	117	14039
210080	Bending, folding, straight. or flat. mach., incl presses, NC	137	14899
290030	Press brakes, non-NC	64	2452
290040	Bending rolls, non-NC	35	962
290050	Bending, folding, straight., or flat., n.e.c., non-NC	586	19354
310080	Shearing machines, NC	54	4435
390050	Shearing machines, non-NC	149	4169
410080	Punching or notching mach., incl. comb. punch & shear, NC	62	10011
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	404	9791
910060	Hydraulic presses, NC	12	476
910090	Hydraulic presses, non-NC	293	6407
990030	Presses, n.e.c., NC	120	5706
990040	Presses, mechanical, non-NC	103	9074
990060	Presses, n.e.c., non-NC	463	16252
8463100080	Draw benches for bars, tubes, profiles, wire or the like	140	5499
200080	Thread rolling machines	23	713
300080	Machines for working wire	380	11832
900080	Metal forming machine tools, n.e.c.	667	50568
9800000002	Used or rebuilt machine tools	1878	29473
9900000002	Machine tools valued at less than $3,025	8175	6437

Forming Total ·		
Y-T-D Forming Total	14051	235021
NC Y-T-D Forming Total	385	35527
Cutting and Forming Totals:		
Monthly Total		
Y-T-D Total	43669	551459
NC Y-T-D Total*	1315	175669

Other Manufacturing Technology		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	335172
2000000000	Parts for working rubber or plastics - heading 8477	0	131091
2710003070	Quenching or cutting oils	0	3194
8428900010	Industrial robots for lifting, handling, loading or unload	352	3457
8431390090	Parts industrial robots, handling and loading - heading 8428	0	51432
8456100000	Laser, light or photon beam for working any material	326	20092
200000	Ultrasonic process for working any material	38	910
8477106010	Injection molding mach., for rubber or oth. thermosetting	96	7085
106070	Injection molding machines, for thermoplastics	195	23804
200005	Extruders; rubber or other thermosetting mat., single screw	66	5124
200015	Extruders; rubber or thermosetting, other incl. multi. screw	85	7403
200030	Extruders; thermoplastics, single screw	245	10678
200060	Extruders; thermoplastics, other incl. multi. screw	56	6091
300000	Blow molding machines	302	18691
400000	Vacuum-molding and other thermoforming machines	601	4430
510010	Machines for molding or retreading pneumatic tires	1736	8433
510090	Machines for molding or otherwise forming inner tubes	325	8273
590000	Machines for molding or otherwise forming n.e.c.	882	14248
800000	Machines for working rubber or plastics n.e.c.	2459	36664
8479899040	Industrial robots, n.e.c.	2767	32329
908040	Industrial robot parts	0	18464
8537100030	Numerical controls for controlling machine tools	831	11922
9024100000	Machines and appliances for testing metals	0	34353
9031100000	Machines for balancing mechanical parts	0	13454
300000	Profile projectors	0	2305
9032810040	Industrial process control instr., hydraulic or pneumatic	490731	24755

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 91 - June 91

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	3	2	761	5	414
8462100030	0	0	0	0	0	0	2	1261	1	509
100050	2	148	1	44	2	71	0	0	14	3542
210080	1	33	0	0	1	48	4	509	23	3508
290030	0	0	0	0	0	0	0	0	23	333
290040	0	0	0	0	0	0	0	0	13	210
290050	53	727	0	0	0	0	1	164	160	2960
310080	0	0	0	0	0	0	0	0	9	697
390050	0	0	0	0	1	24	0	0	40	727
410080	1	118	0	0	0	0	1	77	11	1817
490050	7	166	0	0	2	145	1	13	70	919
910060	0	0	0	0	0	0	0	0	1	185
910090	5	58	0	0	2	213	2	191	19	561
990030	0	0	0	0	19	506	0	0	7	330
990040	0	0	2	101	0	0	17	754	1	13
990060	2	277	0	0	0	0	1	20	15	393
8463100080	0	0	0	0	0	0	0	0	16	1570
200080	0	0	0	0	0	0	0	0	1	88
300080	1	4	0	0	2	42	8	120	31	726
900080	11	224	1	29	20	498	4	43	70	931
9800000002	11	90	1	10	5	146	3	55	225	5026
9900000002	168	151	3	3	176	109	65	56	978	969
Tot	262	1998	8	188	232	1804	111	4023	1733	26427
Y-T-D Tot	262	1998	8	188	232	1804	111	4023	1733	26427
NC YTD Tot	2	151	0	0	20	554	5	585	51	6537
C&F	745	4699	61	826	894	8046	367	10565	4705	69087
C&F YTD	745	4699	61	826	894	8046	367	10565	4705	69087
C&F NC YTD*	7	1275	0	0	58	4669	32	4683	208	32659

Other Manufacturing Technology

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	4813	0	1176	0	4879	0	6480	0	59449
2000000000	0	2089	0	3823	0	3830	0	2460	0	35198
2710003070	0	55	0	0	0	220	0	18	0	734
8428900010	0	0	0	0	2	28	1	11	67	695
8431390090	0	2657	0	26	0	1952	0	256	0	5748
8456100000	4	101	0	0	3	47	0	0	12	672
200000	0	0	0	0	2	54	0	0	1	12
106010	0	0	0	0	0	0	0	0	7	259
106070	0	0	0	0	0	0	13	1046	37	7469
200005	0	0	0	0	0	0	0	0	15	1333
200015	0	0	0	0	0	0	0	0	48	5851
200030	2	124	3	326	18	457	0	0	0	0
200060	1	19	0	0	1	1776	0	0	5	838
300000	0	0	0	0	77	1641	16	828	6	1838
400000	1	50	0	0	0	0	1	3	28	951
510010	402	107	0	0	59	457	16	399	14	350
510090	3	41	11	275	13	313	3	36	0	0
590000	3	20	1	61	16	223	1	21	35	695
800000	9	85	0	0	0	0	30	440	811	11960
8479899040	8	63	0	0	1	10	0	0	1533	12355
908040	0	95	0	0	0	104	0	0	0	5665
8537100030	4	42	0	0	7	100	14	196	64	698
9024100000	0	282	0	78	0	232	0	352	0	3432
9031100000	0	197	0	0	0	0	0	98	0	5733
300000	0	35	0	0	0	34	0	0	0	78
9032810040	1554	187	2748	145	12808	711	168	146	21392	1974

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 91 - June 91

Metal Forming

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	916	3	15	6	70	10	102	0	0
8462100030	0	0	1	679	2	638	0	0	0	0
100050	1	117	24	2064	17	1525	0	0	0	0
210080	12	1051	1	573	6	720	0	0	0	0
290030	0	0	0	0	0	0	0	0	10	1134
290040	0	0	0	0	1	300	0	0	0	0
290050	2	64	8	259	26	877	2	9	5	90
310080	0	0	0	0	4	802	0	0	0	0
390050	2	127	1	200	2	20	0	0	0	0
410080	0	0	3	361	5	772	1	140	0	0
490050	19	661	1	10	17	973	1	8	49	521
910060	2	17	0	0	0	0	0	0	0	0
910090	6	242	7	113	16	743	1	11	0	0
990030	1	362	27	1400	13	981	0	0	0	0
990040	2	534	1	375	32	1844	0	0	1	1214
990060	0	0	18	1256	19	4231	0	0	0	0
8463100080	2	10	1	10	32	314	0	0	0	0
200080	0	0	0	0	6	199	0	0	0	0
300080	3	45	38	616	66	3697	0	0	0	0
900080	23	12037	21	5326	40	5071	25	509	7	402
9800000002	158	1126	26	508	30	541	0	0	5	61
9900000002	44	23	385	244	644	438	19	10	18	15
Tot	279	17332	566	14008	984	24757	59	790	95	3438
Y-T-D Tot	279	17332	566	14008	984	24757	59	790	95	3438
NC YTD Tot	15	1430	31	2334	28	3276	1	140	0	0
C&F	768	31872	1473	24361	3095	62460	394	7883	118	4732
C&F YTD	768	31872	1473	24361	3095	62460	394	7883	118	4732
C&F NC YTD*	43	11076	60	8777	175	27764	5	1754	1	31

Other Manufacturing Technology

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	3596	0	15681	0	35000	0	1599	0	1835
2000000000	0	612	0	2744	0	7450	0	1463	0	914
2710003070	0	17	0	40	0	9	0	5	0	105
8428900010	21	1654	91	402	13	61	0	0	0	0
8431390090	0	1183	0	1040	0	1165	0	40	0	1547
8456100000	3	76	23	1557	16	1203	1	15	3	83
200000	0	0	4	178	0	0	1	15	0	0
106010	1	165	4	523	6	348	0	0	0	0
106070	16	513	7	610	13	1107	0	0	0	0
200005	0	0	0	0	5	157	1	694	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	3	1058	47	1222	36	868	0	0	0	0
200060	0	0	0	0	2	75	0	0	0	0
300000	4	65	6	3928	17	576	0	0	0	0
400000	24	281	37	320	36	102	0	0	0	0
510010	0	0	23	99	1	22	25	480	0	0
510090	1	1650	0	0	1	205	4	437	15	5
590000	4	63	33	426	46	721	25	54	4	1539
800000	73	3576	31	855	112	706	31	499	1	51
8479899040	21	210	230	4389	339	3889	2	32	0	0
908040	0	29	0	522	0	919	0	6	0	0
8537100030	7	107	100	1465	109	1579	0	0	0	0
9024100000	0	1198	0	959	0	3534	0	198	0	31
9031100000	0	148	0	0	0	220	0	1049	0	3
300000	0	0	0	131	0	164	0	0	0	0
9032810040	639	2013	16695	989	34056	2109	1695	145	3099	155

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 91 – June 91

Metal Forming	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	41	448	20	348
8462100030	3	221	13	4823	3	540	0	0	0	0
100050	2	461	3	2272	8	503	0	0	5	276
210080	1	27	8	374	4	1503	1	29	17	1661
290030	0	0	3	103	0	0	0	0	12	192
290040	6	60	0	0	0	0	1	20	3	57
290050	2	415	23	740	10	512	1	12	64	3995
310080	0	0	16	883	0	0	0	0	14	1333
390050	4	32	3	100	18	278	2	35	63	1742
410080	1	71	2	2052	4	262	0	0	8	1310
490050	12	280	17	309	10	110	0	0	68	1157
910060	0	0	0	0	3	110	0	0	4	58
910090	1	32	1	11	6	260	0	0	168	2369
990030	1	224	4	506	-19	608	0	0	0	0
990040	1	393	3	242	0	0	0	0	14	1228
990060	2	52	75	2246	5	643	1	245	261	3760
8463100080	1	23	10	227	0	0	0	0	3	68
200080	0	0	5	147	3	43	0	0	5	132
300080	10	315	12	365	13	250	0	0	52	667
900080	11	462	69	2300	36	3232	0	0	50	738
9800000002	110	1699	58	1995	74	2706	0	0	715	7001
9900000002	123	76	678	344	286	238	46	24	1311	1286
Tot	291	4841	1003	20040	502	11797	93	814	2857	29376
Y-T-D Tot	291	4841	1003	20040	502	11797	93	814	2857	29376
NC YTD Tot	3	322	30	3815	30	2484	1	29	43	4362
C&F	936	12349	4768	54097	2427	34385	197	2449	7699	58533
C&F YTD	936	12349	4768	54097	2427	34385	197	2449	7699	58533
C&F NC YTD*	13	3853	107	12446	65	10908	6	158	156	15897
Other Manufacturing Technology										
1000000000	0	10909	0	31144	0	15005	0	2120	0	24290
2000000000	0	1820	0	5753	0	6179	0	817	0	11034
2710003070	0	17	0	241	0	89	0	4	0	302
8428900010	1	15	9	169	0	0	0	0	9	128
8431390090	0	39	0	1566	0	1456	0	68	0	1922
8456100000	9	1186	80	7930	3	453	0	0	6	744
200000	8	170	4	72	0	0	0	0	3	71
106010	0	0	2	129	1	75	0	0	62	4248
106070	0	0	9	1102	12	3383	1	102	40	4446
200005	0	0	1	149	0	0	0	0	37	2154
200015	0	0	7	378	0	0	16	400	4	387
200030	6	713	5	724	22	952	0	0	35	1817
200060	3	80	11	337	0	0	4	105	14	1847
300000	4	232	1	11	21	386	0	0	48	2839
400000	15	128	102	390	131	1154	0	0	72	734
510010	23	652	23	552	1	87	3	83	96	2101
510090	13	318	6	781	15	370	0	0	50	976
590000	56	989	170	1522	6	27	9	48	100	937
800000	9	136	51	330	24	254	4	189	487	7236
8479899040	84	1049	78	593	3	117	2	29	31	2236
908040	0	580	0	2857	0	308	0	11	0	844
8537100030	25	442	28	381	40	519	6	88	10	164
9024100000	0	893	0	6915	0	3487	0	45	0	1523
9031100000	0	37	0	308	0	2179	0	40	0	1253
300000	0	749	0	159	0	158	0	0	0	28
9032810040	18689	2086	11542	1168	12802	972	242	22	5119	613

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8465300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	4	26	14	157	0	0	0	0	25	267
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	7	706	0	0	0	0	0	0
210080	0	0	6	439	1	55	2	106	3	133
290030	0	0	1	56	0	0	0	0	3	105
290040	0	0	0	0	0	0	0	0	1	23
290050	7	57	12	303	0	0	6	106	7	244
310080	5	445	3	143	0	0	0	0	0	0
390050	3	55	0	0	0	0	0	0	1	10
410080	8	941	2	169	0	0	1	75	3	431
490050	1	4	9	109	4	328	11	141	5	76
910060	0	0	0	0	0	0	0	0	0	0
910090	10	95	1	15	6	210	1	14	6	144
990030	1	47	0	0	0	0	0	0	0	0
990040	2	211	1	40	0	0	0	0	9	437
990060	0	0	3	69	0	0	2	11	3	393
8463100080	0	0	1	6	24	2400	14	368	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	3	46	0	0	9	348	14	288	0	0
900080	55	3539	14	312	0	0	4	62	13	1595
9800000002	4	314	40	630	5	4	3	9	0	732
9900000002	556	407	106	93	21	17	150	118	110	68
Tot	659	6187	220	3249	70	3362	208	1298	189	4657
Y-T-D Tot	659	6187	220	3249	70	3362	208	1298	189	4657
NC YTD Tot	14	1432	11	751	1	55	3	181	6	564
C&F	1074	9337	1784	7917	243	4371	817	4802	921	10666
C&F YTD	1074	9337	1784	7917	243	4371	817	4802	921	10666
C&F NC YTD*	19	2562	26	1916	2	82	19	2406	22	2638

Other Manufacturing Technology

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	7924	0	6780	0	3368	0	3883	0	4193
2000000000	0	3173	0	[illegible]	0	1811	0	1367	0	2813
2710003070	0	0	0	115	0	0	0	11	0	139
8428900010	0	0	7	25	0	0	82	41	0	0
8431390090	0	568	0	1189	0	109	0	164	0	286
8456100000	3	350	7	162	0	0	2	114	13	1069
200000	0	0	2	32	1	16	0	0	0	0
8477106010	0	0	2	194	0	0	0	0	0	0
106070	2	126	5	360	0	0	5	426	0	0
200005	0	0	0	0	0	0	0	0	1	33
200015	3	62	0	0	0	0	0	0	0	0
200030	8	203	0	0	0	0	0	0	1	350
200060	0	0	1	680	0	0	1	14	0	0
300000	1	25	0	0	0	0	3	6	12	224
400000	1	15	1	45	2	24	0	0	39	12
510010	379	303	0	0	24	457	0	0	0	0
510090	1	7	6	7	0	0	0	0	0	0
590000	5	65	4	59	22	275	8	137	13	143
800000	110	158	55	246	7	124	3	61	12	911
8479899040	50	306	1	14	0	0	64	1134	6	991
908040	0	13	0	2171	0	29	0	704	0	156
8537100030	3	39	54	819	11	116	2	23	4	39
9024100000	0	914	0	701	0	860	0	443	0	846
9031100000	0	10	0	411	0	654	0	0	0	87
300000	0	182	0	98	0	3	0	46	0	161
9032810040	44605	2496	20529	1218	26176	1389	4604	232	1525	186

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
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Metal Forming

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	5	22	2	32	0	0	2	12	2	55
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	52	12	904	0	0	1	64	1	69
210080	4	541	10	471	0	0	0	0	15	655
290030	0	0	7	280	0	0	0	0	0	0
290040	0	0	1	72	0	0	0	0	1	59
290050	0	0	133	2313	0	0	0	0	8	1271
310080	2	100	1	32	0	0	0	0	0	0
390050	0	0	1	725	0	0	1	9	0	0
410080	1	176	7	789	0	0	0	0	1	115
490050	16	209	35	1768	0	0	0	0	12	244
910060	0	0	0	0	0	0	1	41	0	0
910090	0	0	3	310	0	0	5	154	4	149
990030	0	0	27	685	0	0	0	0	0	0
990040	0	0	11	635	0	0	0	0	0	0
990060	6	182	20	1086	0	0	2	52	12	269
8463100080	13	99	16	299	0	0	0	0	0	0
8463200080	0	0	2	42	0	0	0	0	0	0
8463300080	15	1454	34	668	1	26	5	79	11	168
8463900080	21	2158	76	2612	0	0	6	132	7	1275
9800000002	31	56	35	355	0	0	17	728	49	620
9900000002	69	60	538	448	0	0	181	55	289	210
Tot	184	5109	971	14526	1	26	221	1325	412	5157
Y-T-D Tot	184	5109	971	14526	1	26	221	1325	2253	33651
NC YTD Tot	7	817	45	1976	0	0	1	41	37	3692
C&F	679	6746	3134	30176	153	16595	709	7561	5508	66945
C&F YTD	679	6746	3134	30176	153	16595	709	7561	5508	66945
C&F NC YTD*	20	1617	141	11282	4	324	18	1764	108	15129

Other Manufacturing Technology

1000000000	0	3674	0	28573	0	890	0	6117	0	9781
2000000000	0	1013	0	7834	0	0	0	3566	0	2718
[illegible]710003070	0	33	0	29	0	0	0	71	0	87
8428900010	0	0	8	128	0	0	0	0	0	0
8431390090	0	6705	0	1878	0	49	0	4702	0	2531
8456100000	0	0	19	604	0	0	61	1821	8	574
200000	5	115	2	40	0	0	0	0	0	0
106010	0	0	1	65	0	0	0	0	3	409
106070	0	0	11	742	0	0	7	423	4	242
200005	0	0	0	0	0	0	4	110	0	0
200015	0	0	0	0	0	0	1	110	5	115
200030	1	139	15	542	0	0	3	76	11	264
200060	1	15	4	75	0	0	0	0	1	63
300000	12	460	22	3930	0	0	0	0	21	435
400000	0	0	85	16	0	0	0	0	18	37
510010	4	93	10	322	0	0	28	118	69	292
510090	74	36	7	627	0	0	1	119	15	581
590000	2	26	278	5731	0	0	3	5	4	66
800000	31	438	170	4370	0	0	28	259	51	761
8479899040	0	0	195	2545	0	0	7	43	8	1449
908040	0	10	0	2766	0	0	0	114	0	239
8537100030	5	57	239	3540	0	0	1	11	26	403
9024100000	0	45	0	2938	0	228	0	199	0	867
9031100000	0	58	0	207	0	0	0	84	0	161
300000	0	0	0	170	0	0	0	0	0	0
9032810040	181414	605	28766	2466	146	23	2551	194	9845	527

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 – June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	2	315	0	0	2	315
Czechoslovakia	1	10	1	165	2	175
Denmark	142	1360	40	189	182	1550
Finland	49	50	47	1011	96	1061
Greece	2	35	221	984	223	1019
Hungary	43	570	1	15	44	585
Iceland	15	10	15	13	30	22
Ireland	56	1707	73	5144	129	6852
Luxembourg	2	3	1	14	3	17
Norway	89	942	90	54	179	996
Poland	3	8	2	1570	5	1577
Portugal	30	37	8	98	38	135
Romania	18	626	0	0	18	626
Sweden	252	3045	146	833	398	3878
Turkey	32	2592	48	1210	80	3802
Yugoslavia	2	23	2	305	4	328
Other Europe	15	49	8	15	23	64
TOTAL	8643	113710	4693	82615	13336	196325
NORTH AND CENTRAL AMERICA						
Bahamas	13	55	1	15	14	70
Barbados	20	8	44	203	64	211
Belize	4	4	0	0	4	4
Bermuda	2	4	5	4	7	8
Costa Rica	185	513	41	159	226	672
Dominican Rep	15	16	8	13	23	30
El Salvador	2	17	4	130	6	147
Guatemala	20	174	21	262	41	436
Haiti	0	0	3	18	3	18
Honduras	64	161	31	370	95	531
Jamaica	1	8	4	172	5	180
Panama	21	25	29	604	50	629
Trinidad	3	113	60	131	63	244
Oth N & C Am.	22	116	9	209	31	325
TOTAL	8186	73030	4850	58094	13036	131124
SOUTH AMERICA						
Argentina	149	5020	113	1299	262	6319
Bolivia	8	5	1	3	9	8
Chile	145	1838	120	1959	265	3797
Colombia	103	973	55	914	158	1887
Ecuador	36	101	69	252	105	353
Paraguay	0	0	0	0	0	0
Peru	33	431	109	172	142	603
Uruguay	25	15	0	0	25	15
Oth South Am.	1	15	1	13	2	28
TOTAL	1244	21175	800	9960	2044	31135
OCEANIA						
New Zealand	23	249	29	615	52	864
Other Oceania	6	37	6	50	12	87
TOTAL	512	2987	297	2663	809	5650

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 - June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	48	9	0	0	48	9
Hong Kong	831	3614	189	2728	1020	6341
Iran	2	20	1	76	3	96
Iraq	0	0	0	0	0	0
Israel	69	328	72	1089	141	1417
Jordan	7	13	1	11	8	25
Kuwait	1	5	0	0	1	5
Laos	0	0	0	0	0	0
Lebanon	6	18	0	0	6	18
Macao	0	0	0	0	0	0
Oman	10	23	22	11	32	35
Pakistan	2	51	18	543	20	594
Philippines	101	310	111	2938	212	3248
Qatar	19	22	0	0	19	22
Saudi Arabia	76	1102	128	3569	204	4671
Sri Lanka	0	0	0	0	0	0
Syria	0	0	3	264	3	264
United Arab Emr	81	449	36	189	117	638
Vietnam	0	0	0	0	0	0
Other Asia	26	17	7	129	33	146
TOTAL	10711	99502	3212	78773	13923	178275
AFRICA						
Algeria	5	590	7	283	12	873
Botswana	0	0	0	0	0	0
Egypt	66	3624	14	426	80	4050
Ethiopia	0	0	1	9	1	9
Gabon	0	0	0	0	0	0
Ghana	1	33	5	846	6	879
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	1	20	0	0	1	20
Mauritius	0	0	7	486	7	486
Morocco	0	0	14	12	14	12
Niger	0	0	0	0	0	0
Nigeria	67	717	12	75	79	792
South Africa	161	913	137	543	298	1456
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	1	205	1	205
Zambia	0	0	1	31	1	31
Zimbabwe	11	48	0	0	11	48
Other Africa	10	88	0	0	10	88
TOTAL	322	6034	199	2916	521	8950

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

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RELEASED: August 28, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	327	25106	49	3540
301050	Electro-discharge machines, n.e.c., NC	103	10009	19	1482
301070	Electro-discharge machines, n.e.c., non-NC	177	1692	21	212
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	821	68910	154	12478
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	55	10313	9	1904
100035	Horizontal machining centers, ATC	268	58733	43	9653
100045	Machining centers, n.e.c.	147	103620	25	38343
200010	Unit construction mach. (single station transfer), NC	22	4455	2	183
200090	Unit construction mach. (single station transfer), non-NC	4	939	0	0
300010	Multi-station transfer machines, NC	8	7988	1	582
300090	Multi-station transfer machines, non-NC	30	13316	4	818
8458110010	Horizontal lathes, multiple spindle, NC	138	22438	24	3769
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	955	73220	137	10872
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	204	30215	33	4869
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	29	12253	2	722
190030	Horizontal engine or toolroom lathes, non-NC	1790	16723	284	2459
190050	Automatic bar and/or chucking mach., single spindle, non-NC	211	6178	34	990
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	16	2326	2	358
190090	Horizontal lathes, n.e.c., non-NC	306	13329	43	3640
911060	Vertical turret lathes, multiple spindle, NC	3	550	0	0
911080	Vertical turret lathes, n.e.c., NC	23	5612	3	601
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	17	3187	3	307
991050	Vertical turret lathes, non-NC	57	675	14	171
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	155	4818	25	1013
8459100000	Way-type unit head machines	2	71	1	13
210080	Other drilling machines, NC	213	16546	56	3117
290040	Drilling machines, multiple spindle, non-NC	12	1057	2	41
290050	Drilling machines, radial, non-NC	124	1342	18	213
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	35	338	0	0
290090	Drilling machines, n.e.c., non-NC	261	6966	70	455
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	5196	5	2273
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	49	8749	0	0
310070	Boring-milling machines, n.e.c., NC	12	2786	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	3	24	3	24
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	57	3700	13	261
400040	Boring machines, vertical, NC	7	1180	1	95
400050	Boring machines, vertical, non-NC	33	674	14	205
400070	Boring machines, n.e.c., NC	12	3848	0	0
400080	Boring machines, n.e.c., non-NC	166	2961	19	457
510080	Milling machines, knee type, NC	225	4026	20	311
590030	Milling machines, knee type, non-NC	1117	9269	255	1884
610080	Milling machines, excluding knee type, n.e.c., NC	261	21583	42	3820
690050	Milling machines, profile, dup., or die sinking, non-NC	15	604	2	463
690070	Milling machines, bed type, non-NC	18	536	4	90
690090	Milling machines, n.e.c., non-NC	204	6411	5	431
700020	Threading or tapping machines, n.e.c., NC	97	5750	21	777
700080	Threading or tapping machines, n.e.c., non-NC	81	2438	27	535
8460110080	Flat surface grinding machines, NC	67	5924	4	301
190010	Flat surface grinding mach., recip.-table type, non-NC	231	3195	48	276
190050	Flat surface grinding machines, n.e.c., non-NC	639	8172	68	974
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	264	42483	36	3928
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	184	4695	9	201
290030	Grinding machines, internal cylindrical, non-NC	106	3457	7	423
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	407	14609	16	1108
310080	Sharpening machines (tool & cutter grinding), NC	83	3742	16	1367
390050	Sharpening machines (tool & cutter grinding), non-NC	316	3539	39	358
400060	Honing or lapping machines, NC	17	1572	3	144
400080	Honing or lapping machines, non-NC	89	5134	22	1126
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	46	3105	11	2106
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	623	16468	103	1438
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	46	2	8
200010	Shaping or slotting machines, NC	2	298	0	0
200090	Shaping or slotting machines, non-NC	31	2613	12	211
300060	Broaching machines, NC	5	2814	0	0
300080	Broaching machines, non-NC	8	3127	2	35
401020	Gear cutting for bevel gears	1	518	1	518
401030	Gear hobbers	79	11932	17	2869
401040	Gear shapers	29	3150	2	66
401060	Gear cutting machines, n.e.c.	114	2233	35	4
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	24	10785	3	614
500050	Sawing or cutting-off machines, NC	61	9851	9	55
500090	Sawing or cutting-off machines, non-NC	762	15722	117	2052
9000000001	Metal cutting machine tools, n.e.c.	152	8166	35	519
9800000001	Used or rebuilt machine tools	1200	23091	116	2785
9900000001	Machine tools valued at less than $3,025	432784	42940	58784	6077
	Cutting Total			61026	143995
	Y-T-D Cutting Total	447227	858977		
	NC Y-T-D Cutting Total	4590	582287		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	4	885
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	2	1634
100045	0	0	0	0	0	0	0	0	13	36261
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	1	562	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	12
110010	0	0	0	0	0	0	0	0	3	796
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	405	2	247
110090	0	0	0	0	0	0	0	0	1	468
190030	0	0	43	377	0	0	2	31	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	1	5	3	34	0	2187
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	2	507
100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	199	0	0	1	172
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	3	35	0	0	0	0	1	45
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	2	33	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	209
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	2	11	15	383	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	3	52
610080	0	0	0	0	0	0	0	0	4	1606
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	80
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	8	177
8460110080	0	0	0	0	0	0	0	0	1	151
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	2	0	0	1	198
210080	0	0	0	0	0	0	0	0	15	1125
290010	0	0	0	0	6	50	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	3
290050	1	2	0	0	0	0	0	0	6	360
310080	0	0	0	0	1	329	0	0	6	91
390050	0	0	0	0	3	12	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	4	663
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	5	0	0	7	270
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	6	0	0	3	47
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	16	2787
401040	0	0	0	0	0	0	0	0	1	52
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	2	383
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	40	661	0	0	11	312
9000000001	0	0	0	0	1	4	0	0	0	0
9800000001	0	0	0	0	23	56	2	5	11	253
9900000001	1	2	0	0	150	45	184	90	404	242
Month Tot	2	4	46	412	235	1998	209	948	537	52275
Y-T-D Tot	24	1297	266	4144	1433	9228	988	9905	4905	229996
NC YTD Tot	4	261	12	1495	26	1740	32	4980	353	164502

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	42	2943	0	0	0	0	0	0
301050	0	0	14	1288	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	1	744	83	7947	3	241	25	909	0	0
100025	0	0	9	1904	0	0	0	0	0	0
100035	0	0	38	7707	2	136	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	2	183	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	507	0	0	0	0	0	0	0	0
110010	0	0	21	2973	0	0	0	0	0	0
110030	0	0	114	9572	4	232	0	0	0	0
110050	0	0	26	4049	1	102	0	0	0	0
110090	0	0	1	254	0	0	0	0	0	0
190030	0	0	0	0	15	135	8	106	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	11	1246	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	2	346	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	153	2	154	0	0	0	0	0	0
991050	0	0	2	71	0	0	0	0	12	100
995090	0	0	1	45	6	313	0	0	0	0
100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	53	2730	0	0	0	0	0	0
290040	2	41	0	0	0	0	0	0	0	0
290050	0	0	[illegible]	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	39	183	0	0	0	0	20	78
310010	3	1692	2	581	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	14	205	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	62	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	14	76
590030	0	0	8	214	0	0	0	0	107	717
610080	0	0	2	351	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	15	627	0	0	0	0	0	0
700080	1	55	11	70	0	0	0	0	0	0
8460110080	2	40	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	15	109	0	0
190050	1	24	7	250	0	0	0	0	2	21
210080	0	0	14	2380	0	0	0	0	0	0
290010	0	0	1	45	0	0	0	0	0	0
290030	0	0	1	35	0	0	0	0	0	0
290050	1	93	1	6	0	0	0	0	0	0
310080	0	0	5	645	0	0	0	0	0	0
390050	7	50	1	39	0	0	0	0	0	0
400060	0	0	2	134	0	0	0	0	0	0
400080	0	0	5	53	0	0	0	0	0	0
900060	0	0	4	2032	0	0	0	0	0	0
900080	52	783	24	236	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	7	158	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	1	8	0	0	0	0	0	0	0	0
500090	0	0	26	600	0	0	0	0	2	24
9000000001	5	232	2	18	6	38	0	0	0	0
9800000001	1	5	36	1146	0	0	1	28	0	0
9900000001	2752	382	2923	567	1470	132	8	1	0	0
Month Tot	2847	5077	3555	53602	1509	1512	57	1153	157	1017
Y-T-D Tot	21198	22587	29881	371353	11231	8991	562	5479	1138	10984
NC YTD Tot	40	9610	2739	315696	76	5153	56	2609	149	1101

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - June 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	4	552	3	45	0	0	0	0
301050	0	0	0	0	1	18	0	0	4	176
301070	0	0	1	34	20	178	0	0	0	0
8457100015	0	0	0	0	6	417	17	939	15	395
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	176
100045	0	0	2	1237	0	0	6	508	4	337
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	1	299	0	0	0	0	0	0
110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	3	239	14	782	1	31	1	17
110050	0	0	0	0	0	0	1	66	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	84	852	32	384	100	575
190050	0	0	3	242	27	215	1	88	3	444
190070	0	0	2	358	0	0	0	0	0	0
190090	0	0	0	0	0	0	6	66	22	103
911060	0	0	0	0	0	0	0	0	0	0
911080	1	255	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	4	1	75	0	0	0	0	14	69
100000	0	0	0	0	0	0	1	13	0	0
210080	0	0	0	0	1	16	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	7	76	0	0	7	57
290070	0	0	0	0	0	0	0	0	0	0
290090	1	8	0	0	0	0	0	0	8	154
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	12	2	12
390050	0	0	0	0	12	52	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	95
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	6	235	0	0
590030	0	0	0	0	117	731	8	89	12	81
610080	0	0	0	0	20	265	1	1464	15	133
690050	0	0	2	463	0	0	0	0	0	0
690070	0	0	0	0	4	90	0	0	0	0
690090	0	0	0	0	0	0	1	23	3	327
700020	0	0	0	0	6	150	0	0	0	0
700080	0	0	7	232	0	0	0	0	0	0
8460110080	0	0	0	0	1	110	0	0	0	0
190010	0	0	0	0	33	168	0	0	0	0
190050	0	0	1	46	51	366	0	0	4	67
210080	0	0	2	392	0	0	1	4	4	26
290010	0	0	1	97	0	0	0	0	1	9
290030	1	252	2	91	0	0	0	0	2	42
290050	1	23	3	602	0	0	2	16	1	5
310080	0	0	1	23	0	0	0	0	3	279
390050	0	0	1	13	12	56	14	176	1	11
400060	0	0	0	0	0	0	1	10	0	0
400080	1	11	4	269	0	0	8	130	0	0
900060	0	0	0	0	0	0	0	0	7	75
900080	2	8	2	24	0	0	10	67	5	46
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	2	8	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	35	0	0	0	0	0	0
401020	0	0	1	518	0	0	0	0	0	0
401030	0	0	1	82	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	1	13
401060	0	0	35	4	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	231
500050	0	0	0	0	8	47	0	0	0	0
500090	0	0	1	158	32	228	1	14	4	55
9000000001	0	0	20	217	0	0	1	10	0	0
9800000001	1	50	4	208	1	6	23	665	13	363
9900000001	317	259	27	23	28611	3397	14	13	21923	923
Month Tot	326	869	136	6543	29071	8266	157	5023	22182	5296
Y-T-D Tot	1728	12331	676	38424	307928	55864	1512	43893	63757	34503
NC YTD To.	11	5959	125	18193	421	14266	200	25611	346	11110

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

RELEASED: August 28, 1991

	Metal Forming Machine Tools	TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	150	18839	21	2713
8462100030	Headers and upsetters, including cold headers	51	10285	11	1275
100050	Forging or die stamping machines, and hammers, n.e.c.	371	21719	58	4711
210080	Bending, folding, straight. or flat. mach., incl presses, NC	246	20076	33	2126
290030	Press brakes, non-NC	120	4232	20	660
290040	Bending rolls, non-NC	33	969	3	87
290050	Bending, folding, straight., or flat., n.e.c., non-NC	495	15463	73	3047
310080	Shearing machines, NC	10	1510	1	296
390050	Shearing machines, non-NC	163	5042	14	205
410080	Punching or notching mach., incl. comb. punch & shear, NC	99	15118	18	4353
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	226	5210	41	482
910060	Hydraulic presses, NC	8	5082	0	0
910090	Hydraulic presses, non-NC	798	11261	86	1675
990030	Presses, n.e.c., NC	1	1281	0	0
990035	Mechanical transfer presses, non-NC	7	57915	1	2304
990045	Mechanical presses, n.e.c., non-NC	53	13428	11	216
990060	Presses, n.e.c., non-NC	202	12336	33	1677
8463100080	Draw benches for bars, tubes, profiles, wire or the like	97	7962	6	763
200080	Thread rolling machines	32	1185	2	163
300080	Machines for working wire	558	29838	94	3972
900080	Metal forming machine tools, n.e.c.	551	16516	57	1413
9800000002	Used or rebuilt machine tools	2137	16256	104	2125
9900000002	Machine tools valued at less than $3,025	7424	2601	1132	387
	Forming Total			1819	34652
	Y-T-D Forming Total	13832	294123		
	NC Y-T-D Forming Total	364	43066		
	Cutting and Forming Totals:				
	Monthly Total			62845	178647
	Y-T-D Total	461059	1153100		
	NC Y-T-D Total	4954	625353		

	Other Manufacturing Technology	TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	282560	0	49144
2000000000	Parts for working rubber or plastics - heading 8477	0	174498	0	27130
2710003070	Quenching or cutting oils	0	152	0	23
8428900010	Industrial robots for lifting, handling, loading or unload	939	14633	251	2320
8431390080	Parts industrial robots, handling and loading - heading 8428	0	46745	0	7316
8456101010	Laser, light or photon beam for working metal, NC	63	16239	5	1049
101020	Laser, light or photon beam for working metal, non-NC	46	6259	8	454
105000	Laser, light or photon beam for other materials	36	4809	7	831
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	32	114	0	0
205000	Ultrasonic processes for working other materials	26	154	0	0
8477103000	Injection molding mach., for manufacturing shoes	5	875	0	0
106010	Injection molding mach., for rubber or oth. thermosetting	432	49943	73	7664
106050	Injection molding mach., for thermoplastics	1141	112577	150	16179
200005	Extruders; rubber or other thermosetting mat., single screw	21	4073	4	449
200015	Extruders; rubber or thermosetting, other incl. multi. screw	105	12459	21	1522
200035	Extruders; thermoplastics, single screw, less than 6.4cm	53	1668	14	786
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	45	4613	4	35
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	31	3713	11	2021
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	75	10524	13	1683
300000	Blow molding machines	104	28059	9	3966
400000	Vacuum-molding and other thermoforming machines	223	9139	37	369
510010	Machines for molding or retreading pneumatic tires	238	13927	45	1102
510090	Machines for molding or otherwise forming inner tubes	44	2971	4	81
590000	Machines for molding or otherwise forming n.e.c.	333	16753	45	1818
800000	Machines for working rubber or plastics n.e.c.	1117	80214	205	6585
8479899040	Industrial robots, n.e.c.	1989	75024	397	15801
908040	Industrial robot parts	0	17150	0	2216
8537100030	Numerical controls for controlling machine tools	4725	17152	1522	2661
9024100000	Machines and appliances for testing metals	0	5970	0	425
9031100000	Machines for balancing mechanical parts	0	3806	0	221
300000	Profile projectors	0	3275	0	594
9032810020	Industrial process control instr., hydraulic	68804	1927	10642	202
810060	Industrial process control instr., pneumatic	86600	2888	16833	675

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

Metal Forming

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	12	1157	0	0	1	176
8462100030	0	0	0	0	0	0	0	0	5	626
100050	0	0	0	0	0	0	0	0	9	3270
210080	0	0	0	0	1	81	0	0	1	19
290030	3	189	0	0	11	400	0	0	0	0
290040	0	0	0	0	2	7	0	0	1	79
290050	0	0	0	0	22	493	0	0	9	220
310080	0	0	0	0	0	0	0	0	0	0
390050	2	48	0	0	2	37	0	0	0	0
410080	0	0	0	0	0	0	0	0	6	946
490050	0	0	0	0	0	0	0	0	23	228
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	1	52	0	0	13	1365
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	74	0	0	1	7	0	0	0	0
990060	0	0	0	0	18	985	0	0	7	286
8463100080	0	0	0	0	0	0	0	0	5	675
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	73	0	0	32	1620
900080	0	0	0	0	5	31	12	93	1	5
9800000002	4	174	0	0	31	480	0	0	4	138
9900000002	0	0	0	0	22	24	9	18	23	13
Month Tot	10	485	0	0	129	3827	21	111	140	9665
Y-T-D Tot	106	4949	24	19697	1265	24565	105	1102	896	49019
NC YTD Tot	1	561	0	0	20	2855	5	55	63	11010
C&F Month	12	488	46	412	364	5825	230	1059	677	61940
C&F Y-T-D	130	6246	290	23841	2698	33792	1093	11008	5801	279015
C&F NC YTD	5	822	12	1495	46	4595	37	5035	416	175512

Other Manufacturing Technology

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	775	0	83	0	12105	0	468	0	8906
2000000000	0	11	0	13	0	5501	0	2741	0	7021
2710003070	0	0	0	0	0	4	0	0	0	0
8428900010	0	0	0	0	5	60	0	0	9	523
8431390080	0	0	0	5	0	2012	0	29	0	984
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	7	342
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	0	0	0	0	2	130
106050	0	0	0	0	31	4923	1	3	25	2889
200005	0	0	0	0	1	87	0	0	0	0
200015	0	0	0	0	0	0	0	0	1	43
200035	0	0	0	0	9	151	0	0	1	6
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	11	2021
200065	0	0	0	0	0	0	0	0	9	723
300000	0	0	0	0	0	0	1	1294	2	1380
400000	1	13	0	0	0	0	0	0	25	276
510010	0	0	0	0	24	660	0	0	1	400
510090	0	0	0	0	2	10	0	0	0	0
590000	0	0	0	0	7	375	9	657	3	176
800000	0	0	0	0	18	730	5	965	33	1124
8479899040	0	0	0	0	3	19	3	169	4	379
908040	0	0	0	0	0	6	0	0	0	725
8537100030	0	0	0	0	4	78	0	0	5	22
9024100000	0	0	0	0	0	10	0	0	0	112
9031100000	0	0	0	0	0	39	0	0	0	79
300000	0	0	0	0	0	0	0	0	0	36
9032810020	0	0	0	0	4	17	0	0	3	4
810060	0	0	0	0	17	86	0	0	19	160

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	82	0	0	0	0
8462100030	5	567	0	0	0	0	0	0	0	0
100050	6	174	42	696	0	0	0	0	0	0
210080	1	2	27	1925	0	0	0	0	0	0
290030	0	0	3	47	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	14	20	1017	0	0	0	0	0	0
310080	0	0	1	296	0	0	0	0	0	0
390050	0	0	2	32	0	0	0	0	0	0
410080	0	0	6	557	0	0	0	0	0	0
490050	2	25	2	48	0	0	0	0	6	94
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	34	178	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	1	2304	0	0	0	0	0	0
990045	0	0	2	101	0	0	0	0	0	0
990060	2	9	0	0	0	0	0	0	0	0
8463100080	1	89	0	0	0	0	0	0	0	0
200080	0	0	2	163	0	0	0	0	0	0
300080	34	939	19	321	0	0	0	0	1	183
900080	1	241	9	265	0	0	0	0	0	0
9800000002	6	30	8	224	0	0	0	0	0	0
9900000002	96	101	16	18	0	0	0	0	0	0
Month Tot	156	2189	194	8194	1	82	0	0	7	277
Y-T-D Tot	982	19427	2237	129230	12	445	1	300	277	1533
NC YTD Tot	22	759	204	18720	0	0	0	0	0	0
C&F Month	3003	7266	3749	61795	1510	1594	57	1153	164	1293
C&F Y-T-D	22180	42014	32118	500583	11243	9436	563	5779	1415	12517
C&F NC YTD	62	10369	2943	334416	76	5153	56	2609	149	1101

Other Manufacturing Technology

1000000000	0	1473	0	11713	0	25	0	422	0	192
2000000000	0	1169	0	6038	0	143	0	46	0	17
2710003070	0	0	0	19	0	0	0	0	0	0
8428900010	2	153	216	1137	0	0	0	0	2	82
8431390080	0	286	0	2035	0	34	0	0	0	16
8456101010	0	0	5	1049	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	3	398	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	3	1300	49	5397	0	0	0	0	0	0
106050	12	1131	42	4310	2	53	0	0	0	0
200005	0	0	3	363	0	0	0	0	0	0
200015	1	20	1	984	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	1	17	0	0	0	0	0	0
300000	2	841	1	408	0	0	0	0	0	0
400000	1	17	5	56	0	0	0	0	0	0
510010	0	0	2	20	0	0	0	0	0	0
510090	0	0	0	0	0	0	1	59	0	0
590000	0	0	12	559	0	0	0	0	0	0
800000	16	213	57	2010	0	0	4	57	0	0
8479899040	0	0	330	14604	0	0	0	0	0	0
908040	0	29	0	882	0	0	0	0	0	0
8537100030	11	46	1501	2513	0	0	0	0	0	0
9024100000	0	6	0	42	0	0	0	0	0	0
9031100000	0	35	0	58	0	0	0	0	0	0
300000	0	0	0	203	0	0	0	0	0	0
9032810020	0	0	0	0	2800	9	0	0	0	0
810060	304	34	16	75	7500	24	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
June 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	4	1297	0	0	3	2	0	0
8462100030	0	0	0	0	0	0	1	82	0	0
100050	0	0	0	0	0	0	0	0	1	572
210080	2	88	0	0	0	0	1	12	0	0
290030	0	0	0	0	0	0	0	0	3	23
290040	0	0	0	0	0	0	0	0	0	0
290050	5	702	5	433	8	160	0	0	2	9
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	7	77	1	11
410080	0	0	0	0	0	0	0	0	6	2850
490050	0	0	0	0	5	27	2	29	1	32
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	15	29	22	44	0	0	1	7
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	13	2	8	0	0	4	13	0	0
990060	0	0	0	0	0	0	6	397	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	2	78	2	700	0	0	3	58	0	0
900080	0	0	27	664	0	0	1	10	1	105
9800000002	1	4	0	0	23	4	1	5	26	1067
9900000002	21	3	38	48	896	147	9	13	2	3
Month Tot	32	887	93	3179	954	382	38	697	44	4679
Y-T-D Tot	123	7156	577	10550	3794	3348	1599	10878	1834	11923
NC YTD Tot	10	1772	6	350	3	31	3	1479	27	5474
C&F Month	358	1756	229	9722	30025	8647	195	5720	22226	9974
C&F Y-T-D	1851	19487	1253	48973	311722	59212	3111	54772	65591	46426
C&F NC YTD	21	7731	131	18543	424	14297	203	27090	373	16584

Other Manufacturing Technology

1000000000	0	712	0	3403	0	1923	0	3569	0	3376
2000000000	0	15	0	2049	0	263	0	730	0	1374
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	5	194	1	10	0	0	6	6	5	156
8431390080	0	235	0	144	0	216	0	403	0	917
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	1	112
105000	0	0	0	0	0	0	0	0	4	433
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	4	144	3	33	12	659
106050	0	0	3	498	10	312	6	85	18	1976
200005	0	0	0	0	0	0	0	0	0	0
200015	16	246	0	0	1	184	0	0	1	46
200035	0	0	0	0	0	0	4	629	0	0
200045	0	0	0	0	1	14	1	18	2	3
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	1	144	2	799
300000	0	0	0	0	2	15	0	0	1	28
400000	0	0	0	0	0	0	5	8	0	0
510010	0	0	0	0	0	0	0	0	18	22
510090	0	0	0	0	0	0	1	12	0	0
590000	1	31	0	0	0	0	11	7	2	12
800000	0	0	0	0	19	244	37	909	16	333
8479899040	4	324	1	56	0	0	0	0	52	250
908040	0	97	0	54	0	2	0	139	0	281
8537100030	0	0	0	0	0	0	0	0	1	2
9024100000	0	0	0	27	0	0	0	219	0	9
9031100000	0	4	0	0	0	0	0	7	0	0
300000	0	0	0	38	0	0	0	302	0	15
9032810020	0	0	457	20	0	0	601	4	6777	147
810060	1921	278	0	0	6556	10	0	0	500	7

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	124	353	4	902	128	1255
Bulgaria	6	45	0	0	6	45
Czechoslovakia	10	242	0	0	10	242
Denmark	8	85	2	35	10	120
Finland	2	17	6	2850	8	2867
Hungary	0	0	0	0	0	0
Ireland	22	97	0	0	22	97
Luxembourg	1	10	0	0	1	10
Netherlands	4	276	0	0	4	276
Norway	1	1	0	0	1	1
Poland	3	424	0	0	3	424
Portugal	0	0	0	0	0	0
Romania	4	321	0	0	4	321
USSR	1	4	1	11	2	15
Yugoslavia	3	129	0	0	3	129
Other Europe	1	11	0	0	1	11
TOTAL	4561	73772	510	21286	5071	95058
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	231	90	24	733	255	823
Oth N & C Am.	0	0	0	0	0	0
TOTAL	466	2088	153	4561	619	6649
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	46	412	0	0	46	412
OCEANIA						
Australia	53	407	1	7	54	414
New Zealand	1	10	0	0	1	10
Oth Oceania	0	0	0	0	0	0
TOTAL	54	417	1	7	55	424

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	12853	1344	4	34	12857	1378
Hong Kong	8816	281	1	2	8817	282
India	18	246	0	0	18	246
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	7	260	1	105	8	365
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	12	467	0	0	12	467
Other Asia	0	0	0	0	0	0
TOTAL	55898	67130	1155	8798	57053	75928
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Other Africa	1	176	0	0	1	176
TOTAL	1	176	0	0	1	176

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS - Metal Cutting Machine Tools: January 91 - June 91

RELEASED: August 28, 1991

		TOTAL YTD	
		UNITS	$000
8456301020	Traveling wire electro-discharge machines	327	25106
301050	Electro-discharge machines, n.e.c., NC	103	10009
301070	Electro-discharge machines, n.e.c., non-NC	177	1692
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	821	68910
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	55	10313
100035	Horizontal machining centers, ATC	268	58733
100045	Machining centers, n.e.c.	147	103620
200010	Unit construction mach. (single station transfer), NC	22	4455
200090	Unit construction mach. (single station transfer), non-NC	4	939
300010	Multi-station transfer machines, NC	8	7988
300090	Multi-station transfer machines, non-NC	30	13316
8458110010	Horizontal lathes, multiple spindle, NC	138	22438
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	955	73220
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	204	30215
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	29	12253
190030	Horizontal engine or toolroom lathes, non-NC	1790	16723
190050	Automatic bar and/or chucking mach., single spindle, non-NC	211	6178
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	16	2326
190090	Horizontal lathes, n.e.c., non-NC	306	13329
911060	Vertical turret lathes, multiple spindle, NC	3	550
911080	Vertical turret lathes, n.e.c., NC	23	5612
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887
915070	Vertical lathes, excluding VTL's, n.e.c., NC	17	3187
991050	Vertical turret lathes, non-NC	57	675
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	155	4818
8459100000	Way-type unit head machines	2	71
210080	Other drilling machines, NC	213	16546
290040	Drilling machines, multiple spindle, non-NC	12	1057
290050	Drilling machines, radial, non-NC	124	1342
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	35	338
290090	Drilling machines, n.e.c., non-NC	261	6966
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	5196
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	49	8749
310070	Boring-milling machines, n.e.c., NC	12	2786
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	3	24
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	57	3700
400040	Boring machines, vertical, NC	7	1180
400050	Boring machines, vertical, non-NC	33	674
400070	Boring machines, n.e.c., NC	12	3848
400080	Boring machines, n.e.c., non-NC	166	2961
510080	Milling machines, knee type, NC	225	4026
590030	Milling machines, knee type, non-NC	1117	9269
610080	Milling machines, excluding knee type, n.e.c., NC	261	21583
690050	Milling machines, profile, dup., or die sinking, non-NC	15	604
690070	Milling machines, bed type, non-NC	18	536
690090	Milling machines, n.e.c., non-NC	204	6411
700020	Threading or tapping machines, n.e.c., NC	97	5750
700080	Threading or tapping machines, n.e.c., non-NC	81	2438
110080	Flat surface grinding machines, NC	67	5924
190010	Flat surface grinding mach., recip.-table type, non-NC	231	3195
190050	Flat surface grinding machines, n.e.c., non-NC	639	8172
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	264	42483
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	184	4695
290030	Grinding machines, internal cylindrical, non-NC	106	3457
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	407	14609
310080	Sharpening machines (tool & cutter grinding), NC	83	3742
390050	Sharpening machines (tool & cutter grinding), non-NC	316	3539
400060	Honing or lapping machines, NC	17	1572
400080	Honing or lapping machines, non-NC	89	5134
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	46	3105
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	623	16468
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	8	46
200010	Shaping or slotting machines, NC	2	298
200090	Shaping or slotting machines, non-NC	31	2613
300060	Broaching machines, NC	5	2814
300080	Broaching machines, non-NC	8	3127
401020	Gear cutting for bevel gears	1	518
401030	Gear hobbers	79	11932
401040	Gear shapers	29	3150
401060	Gear cutting machines, n.e.c.	114	2233
405050	Gear grinding or finishing for bevel gears	1	49
405070	Gear grinding or finishing machines, n.e.c.	24	10785
500050	Sawing or cutting-off machines, NC	61	9851
500090	Sawing or cutting-off machines, non-NC	762	15722
9000000001	Metal cutting machine tools, n.e.c.	152	8166
9800000001	Used or rebuilt machine tools	1200	23091
9900000001	Machine tools valued at less than $3,025	432784	42940
	Cutting Total		
	Y-T-D Cutting Total	447227	858977
	NC Y-T-D Cutting Total	4590	582287

Please see notes on last page
of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools: January 91 – June 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	5	2672
301070	0	0	1	15	1	66	0	0	6	422
8457100015	0	0	0	0	1	9	4	334	19	2972
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	13	4474
100045	0	0	0	0	5	163	0	0	41	92478
200010	0	0	0	0	0	0	0	0	1	1761
200090	0	0	0	0	0	0	0	0	2	634
300010	0	0	0	0	1	582	0	0	5	6726
300090	0	0	0	0	4	1689	0	0	5	4073
8458110010	0	0	12	1495	0	0	0	0	16	4217
110030	3	252	0	0	0	0	3	402	2	159
110050	0	0	0	0	0	0	13	1910	2	247
110090	0	0	0	0	0	0	0	0	9	5801
190030	0	0	173	1698	1	11	5	71	0	0
190050	0	0	7	137	0	0	0	0	8	2290
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	21	166	1	5	3	34	4	6694
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	10	2142	1	1019
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	30	0	0	1	981
991050	0	0	0	0	0	0	3	294	0	0
995090	0	0	28	233	1	16	0	0	19	636
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	199	0	0	7	1126
290040	0	0	0	0	2	15	0	0	0	0
290050	0	0	5	61	0	0	0	0	3	55
290070	0	0	0	0	1	160	0	0	4	38
290090	0	0	7	76	8	531	1	1208	10	1693
310010	0	0	0	0	0	0	0	0	2	1783
310040	0	0	0	0	0	0	0	0	19	5098
310070	0	0	0	0	2	15	0	0	7	1398
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	9	0	0	12	2260
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	5	73	0	0	0	0
400080	0	0	0	0	32	427	83	1757	28	242
510080	0	0	0	0	0	0	0	0	2	8
590030	0	0	0	0	0	0	3	364	10	165
610080	0	0	0	0	0	0	1	164	17	7395
690050	0	0	0	0	0	0	2	11	1	8
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	2	25	0	0	20	1300
700020	0	0	0	0	1	12	0	0	3	591
700080	1	5	0	0	0	0	0	0	10	191
8460110080	1	9	0	0	1	3	0	0	45	4340
190010	0	0	9	195	0	0	0	0	2	511
190050	0	0	0	0	18	75	3	97	12	945
210080	0	0	0	0	1	233	0	0	71	6682
290010	0	0	0	0	32	288	0	0	66	389
290030	0	0	0	0	0	0	0	0	4	705
290050	1	2	0	0	56	177	6	33	106	2978
310080	0	0	0	0	5	351	0	0	25	472
390050	1	25	0	0	21	78	2	45	94	1237
400060	0	0	0	0	0	0	0	0	7	491
400080	0	0	0	0	5	55	0	0	17	2135
900060	0	0	0	0	1	71	0	0	0	0
900080	0	0	0	0	12	135	19	75	89	4967
100060	0	0	0	0	0	0	0	0	0	0
100080	1	6	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	1	85
200090	0	0	0	0	6	36	0	0	5	86
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	54	10434
401040	0	0	0	0	0	0	0	0	6	2079
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	1	755	0	0	0	0	0	0	11	5220
500050	0	0	0	0	0	0	1	28	24	9531
500090	0	0	0	0	170	2257	5	55	150	5497
9000000001	0	0	0	0	13	169	1	10	30	3890
9800000001	3	231	3	70	98	686	9	194	197	4518
9900000001	12	13	0	0	922	581	811	677	3575	1197
Tot	24	1297	266	4144	1433	9228	988	9905	4905	229996
Y-T-D Tot	24	1297	266	4144	1433	9228	988	9905	4905	229996
NC YTD Tot	4	261	12	1495	26	1740	32	4980	353	164502

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools: January 91 - June 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	216	17223	0	0	0	0	0	0
301050	0	0	68	5734	0	0	0	0	0	0
301070	0	0	11	241	0	0	0	0	0	0
8457100015	1	744	516	48378	5	391	51	2381	0	0
100025	1	744	35	7542	0	0	2	109	0	0
100035	0	0	240	51327	6	418	0	0	0	0
100045	2	1229	42	3820	5	278	0	0	0	0
200010	1	1047	6	315	14	1331	0	0	0	0
200090	0	0	2	305	0	0	0	0	0	0
300010	1	587	0	0	0	0	0	0	0	0
300090	5	2884	0	0	0	0	0	0	0	0
8458110010	0	0	104	15392	2	108	0	0	0	0
110030	1	124	748	63179	40	2182	0	0	0	0
110050	0	0	182	27107	2	204	0	0	1	124
110090	0	0	17	3623	0	0	0	0	0	0
190030	0	0	5	139	69	647	105	1340	32	325
190050	0	0	1	60	0	0	0	0	1	103
190070	0	0	6	1094	0	0	0	0	0	0
190090	0	0	54	3777	0	0	0	0	3	111
911060	0	0	3	550	0	0	0	0	0	0
911080	0	0	8	1890	2	241	0	0	0	0
915050	0	0	9	2344	0	0	0	0	0	0
915070	4	589	8	815	0	0	0	0	0	0
991050	16	67	3	104	0	0	0	0	26	176
995090	1	258	12	708	32	1787	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	201	15044	0	0	0	0	0	0
290040	2	41	6	970	0	0	0	0	0	0
290050	7	153	6	190	2	35	0	0	6	123
290070	0	0	5	58	0	0	0	0	1	6
290090	3	397	50	1508	1	128	0	0	151	878
310010	3	1692	6	1722	0	0	0	0	0	0
310040	0	0	1	342	0	0	0	0	0	0
310070	1	329	0	0	0	0	0	0	0	0
39004	0	0	0	0	0	0	0	0	0	0
390050	6	66	4	541	0	0	0	0	1	168
400040	0	0	3	948	0	0	0	0	0	0
400050	29	415	2	172	0	0	0	0	0	0
400070	2	212	5	3563	0	0	0	0	0	0
400080	17	295	3	136	0	0	0	0	0	0
510080	1	397	3	1549	0	0	0	0	148	977
590030	4	168	12	298	0	0	1	24	653	5152
610080	1	347	34	7113	0	0	3	119	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	5	298	0	0	0	0	0	0
690090	1	18	8	3101	0	0	0	0	10	299
700020	0	0	85	4928	0	0	0	0	0	0
700080	1	55	26	1267	0	0	0	0	2	161
8460110080	5	159	4	1000	0	0	0	0	0	0
190010	9	237	12	719	0	0	104	1028	0	0
190050	3	153	9	320	0	0	0	0	5	481
210080	2	811	159	24505	0	0	0	0	0	0
290010	0	0	31	1500	0	0	0	0	1	40
290030	0	0	5	389	0	0	0	0	0	0
290050	19	1052	88	7819	1	2	0	0	1	398
310080	1	3	9	1332	0	0	0	0	0	0
390050	22	156	23	331	0	0	0	0	1	60
400060	0	0	9	1072	0	0	0	0	0	0
400080	0	0	30	1133	0	0	0	0	0	0
900060	1	277	11	2394	0	0	0	0	0	0
900080	79	1385	183	5532	0	0	0	0	14	1229
100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	213	0	0	0	0	0	0
200090	0	0	20	2490	0	0	0	0	0	0
300060	0	0	2	341	0	0	0	0	0	0
300080	0	0	2	509	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	5	1005	4	176	0	0	0	0
401040	0	0	18	999	0	0	0	0	0	0
401060	0	0	5	360	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	2	162	2	504	0	0	0	0	0	0
500050	8	96	1	34	0	0	0	0	0	0
500090	59	1439	163	4710	0	0	0	0	6	68
9000000001	17	331	38	2432	8	45	0	0	1	5
9800000001	42	584	456	6204	1	20	4	429	3	23
9900000001	20818	2885	25834	4092	11037	998	292	48	71	75
Tot	21198	22587	29881	371353	11231	8991	562	5479	1138	10984
Y-T-D Tot	21198	22587	29881	371353	11231	8991	562	5479	1138	10984
NC YTD Tot	40	9610	2739	315696	76	5153	56	2609	149	1101

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools: January 91 - June 9

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	42	6046	24	161	0	0	0	0
301050	0	0	13	1243	13	184	0	0	4	176
301070	2	23	13	310	51	434	0	0	0	0
8457100015	0	0	0	0	73	4937	109	7346	15	395
100025	0	0	0	0	14	1787	0	0	0	0
100035	0	0	1	111	3	395	4	1833	1	176
100045	2	826	3	1619	0	0	17	1459	4	337
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	1	93	0	0	0	0	0	0
300090	0	0	12	2616	0	0	1	1687	0	0
8458110010	0	0	1	632	2	124	1	472	0	0
110030	0	0	13	1533	74	3550	11	665	1	17
110050	0	0	0	0	0	0	4	622	0	0
110090	2	2452	0	0	0	0	0	0	0	0
190030	3	30	1	4	545	4349	160	2435	100	575
190050	0	0	13	1686	119	921	5	312	3	444
190070	0	0	6	1103	1	33	1	43	0	0
190090	0	0	2	98	56	547	47	800	22	103
911060	0	0	0	0	0	0	0	0	0	0
911080	1	255	1	65	0	0	0	0	0	0
915050	1	368	3	175	0	0	0	0	0	0
915070	0	0	0	0	0	0	2	771	0	0
991050	0	0	0	0	8	30	1	3	0	0
995090	1	4	1	75	13	64	13	611	14	69
8459100000	0	0	0	0	0	0	1	13	0	0
210080	0	0	0	0	2	28	0	0	0	0
290040	0	0	2	31	0	0	0	0	0	0
290050	0	0	0	0	53	397	0	0	7	57
290070	24	77	0	0	0	0	0	0	0	0
290090	3	29	0	0	1	21	11	253	8	154
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	2	1336	0	0	4	954	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	1	12	2	12
390050	0	0	1	462	28	122	2	7	0	0
400040	0	0	0	0	0	0	0	0	1	95
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	57	546	14	549	0	0
590030	1	41	0	0	336	2013	31	608	12	81
610080	0	0	3	960	123	2081	4	2954	15	133
690050	0	0	4	553	8	32	0	0	0	0
690070	0	0	0	0	13	238	0	0	0	0
690090	0	0	3	119	57	429	3	72	3	327
700020	0	0	0	0	7	175	1	44	0	0
700080	0	0	21	355	0	0	4	126	0	0
8460110080	0	0	2	228	1	110	8	76	0	0
190010	0	0	0	0	80	455	0	0	0	0
190050	4	1481	11	316	537	3686	12	313	4	67
210080	5	2058	13	2736	0	0	8	5426	4	26
290010	0	0	31	1884	10	217	11	349	1	9
290030	21	632	13	1053	9	54	0	0	2	42
290050	1	23	15	1211	54	459	46	225	1	5
310080	0	0	19	602	0	0	9	6	3	279
390050	0	0	13	278	15	75	108	948	1	11
400060	0	0	0	0	0	0	1	10	0	0
400080	4	1130	5	282	0	0	27	393	0	0
900060	0	0	1	98	0	0	0	0	7	75
900080	4	889	6	316	24	290	75	439	5	46
100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	2	8	0	0	5	31	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	1	2403	0	0
300080	0	0	2	35	0	0	4	2583	0	0
401020	0	0	1	518	0	0	0	0	0	0
401030	0	0	1	82	0	0	13	177	0	0
401040	0	0	0	0	0	0	0	0	1	13
401060	0	0	92	14	0	0	12	9	0	0
405050	0	0	0	0	0	0	1	49	0	0
405070	0	0	6	3909	0	0	1	4	1	231
500050	0	0	0	0	27	162	0	0	0	0
500090	1	64	6	264	91	596	21	115	4	55
9000000001	0	0	27	934	6	144	3	31	0	0
9800000001	17	245	44	2326	35	264	198	5415	13	363
9900000001	1631	1704	204	107	305358	25753	496	241	21923	923
Tot	1728	12331	676	38424	307928	55864	1512	43893	22182	5296
Y-T-D Tot	1728	12331	676	38424	307928	55864	1512	43893	63757	34503
NC YTD Tot	11	5959	125	18193	421	14266	200	25611	346	11110

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 – June 91

RELEASED: August 28, 1991

Metal Forming Machine Tools		TOTAL YTD	
		UNITS	$000
8454300010	Die casting machines	150	18839
8462100030	Headers and upsetters, including cold headers	51	10285
100050	Forging or die stamping machines, and hammers, n.e.c.	371	21719
210080	Bending, folding, straight. or flat. mach., incl presses, NC	246	20076
290030	Press brakes, non-NC	120	4232
290040	Bending rolls, non-NC	33	969
290050	Bending, folding, straight., or flat., n.e.c., non-NC	495	15463
310080	Shearing machines, NC	10	1510
390050	Shearing machines, non-NC	163	5042
410080	Punching or notching mach., incl. comb. punch & shear, NC	99	15118
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	226	5210
910060	Hydraulic presses, NC	8	5082
910090	Hydraulic presses, non-NC	798	11261
990030	Presses, n.e.c., NC	1	1281
990035	Mechanical transfer presses, non-NC	7	57915
990045	Mechanical presses, n.e.c., non-NC	53	13428
990060	Presses, n.e.c., non-NC	202	12336
8463100080	Draw benches for bars, tubes, profiles, wire or the like	97	7962
200080	Thread rolling machines	32	1185
300080	Machines for working wire	558	29838
900080	Metal forming machine tools, n.e.c.	551	16516
9800000002	Used or rebuilt machine tools	2137	16256
9900000002	Machine tools valued at less than $3,025	7424	2601
	Forming Total		
	Y-T-D Forming Total	13832	294123
	NC Y-T-D Forming Total	364	43066
	Cutting and Forming Totals:		
	Total		
	Y-T-D Total	461059	1153100
	NC Y-T-D Total	4954	625353

Other Manufacturing Technology		TOTAL YTD	
		UNITS	$000
1000000000	Machine tool parts and accessories	0	282560
2000000000	Parts for working rubber or plastics - heading 8477	0	174498
2710003070	Quenching or cutting oils	0	152
8428900010	Industrial robots for lifting, handling, loading or unload	939	14633
8431390080	Parts industrial robots, handling and loading - heading 8428	0	46745
8456101010	Laser, light or photon beam for working metal, NC	63	16239
101020	Laser, light or photon beam for working metal, non-NC	46	6259
105000	Laser, light or photon beam for other materials	36	4809
201010	Ultrasonic processes for working metal, NC	0	0
201050	Ultrasonic processes for working metal, non-NC	32	114
205000	Ultrasonic processes for working other materials	26	154
8477103000	Injection molding mach., for manufacturing shoes	5	875
106010	Injection molding mach., for rubber or oth. thermosetting	432	49943
106050	Injection molding mach., for thermoplastics	1141	112577
200005	Extruders; rubber or other thermosetting mat., single screw	21	4073
200015	Extruders; rubber or thermosetting, other incl. multi. screw	105	12459
200035	Extruders; thermoplastics, single screw, less than 6.4cm	53	1668
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	45	4613
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	31	3713
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	75	10524
300000	Blow molding machines	104	28059
400000	Vacuum-molding and other thermoforming machines	223	9139
510010	Machines for molding or retreading pneumatic tires	238	13927
510090	Machines for molding or otherwise forming inner tubes	44	2971
590000	Machines for molding or otherwise forming n.e.c.	333	16753
800000	Machines for working rubber or plastics n.e.c.	1117	80214
8479899040	Industrial robots, n.e.c.	1989	75024
908040	Industrial robot parts	0	17150
8537100030	Numerical controls for controlling machine tools	4725	17152
9024100000	Machines and appliances for testing metals	0	5970
9031100000	Machines for balancing mechanical parts	0	3806
300000	Profile projectors	0	3275
9032810020	Industrial process control instr., hydraulic	68804	1927
810060	Industrial process control instr., pneumatic	86600	2888

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - June 91

Metal Forming	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	37	2620	2	218	2	658
8462100030	1	73	0	0	9	42	0	0	9	1797
100050	0	0	0	0	29	793	1	36	33	5917
210080	1	561	0	0	19	2854	3	11	10	1583
290030	25	1332	0	0	70	2572	0	0	0	0
290040	0	0	0	0	19	557	0	0	4	177
290050	1	7	0	0	122	2230	1	78	56	2186
310080	0	0	0	0	0	0	1	35	1	125
390050	19	438	0	0	26	827	0	0	9	526
410080	0	0	0	0	1	2	1	9	47	5081
490050	0	0	0	0	9	730	0	0	75	1932
910060	0	0	0	0	0	0	0	0	5	4220
910090	1	31	0	0	23	2537	4	13	72	1809
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	2	18629	0	0	0	0	0	0
990045	1	74	0	0	2	81	0	0	1	155
990060	0	0	0	0	83	3530	6	116	21	3476
8463100080	13	1040	0	0	4	526	0	0	54	3419
200080	0	0	0	0	0	0	0	0	6	109
300080	16	883	4	90	17	1787	0	0	91	7482
900080	0	0	0	0	32	392	45	319	105	6551
9800000002	28	508	17	976	250	2227	4	192	97	1664
9900000002	0	0	1	3	513	260	37	75	198	149
Tot	106	4949	24	19697	1265	24565	105	1102	896	49019
Y-T-D Tot	106	4949	24	19697	1265	24565	105	1102	896	49019
NC YTD Tot	1	561	0	0	20	2855	5	55	63	11010
C&F	130	6246	290	23841	2698	33792	1093	11008	5801	279015
C&F Y-T-D	130	6246	290	23841	2698	33792	1093	11008	5801	279015
C&F NC YTD	5	822	12	1495	46	4595	37	5035	416	175512

Other Manufacturing Technology

Other Manufacturing Technology	Belgium Units	Belgium $000	Brazil Units	Brazil $000	Canada Units	Canada $000	France Units	France $000	Germany ** Units	Germany ** $000
1000000000	0	3389	0	444	0	39515	0	4677	0	63441
2000000000	0	241	0	53	0	29135	0	20473	0	65196
2710003070	0	0	0	0	0	65	0	0	0	8
8428900010	1	53	0	0	47	644	3	196	40	1066
8431390080	0	4	0	297	0	9206	0	778	0	5336
8456101010	0	0	0	0	0	0	0	0	3	1099
101020	0	0	0	0	0	0	0	0	39	2953
105000	0	0	0	0	11	950	0	0	4	1376
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	47
106010	0	0	0	0	8	840	12	1815	64	6612
106050	7	61	0	0	207	29296	2	30	312	19623
200005	0	0	0	0	1	87	0	0	8	2815
200015	0	0	0	0	5	34	1	91	38	7474
200035	0	0	0	0	31	583	0	0	2	115
200045	0	0	0	0	5	367	0	0	13	3472
200055	0	0	0	0	2	22	0	0	18	2945
200065	0	0	0	0	9	309	0	0	31	3518
300000	0	0	0	0	12	371	11	9924	24	9944
400000	1	13	0	0	3	85	1	16	73	3132
510010	0	0	0	0	83	4287	6	706	13	6507
510090	0	0	2	32	5	19	1	8	1	90
590000	1	350	0	0	55	1909	9	657	111	3202
800000	25	364	0	0	149	2554	17	2767	286	25249
8479899040	0	0	0	0	10	1635	3	169	30	3252
908040	0	0	0	0	0	181	0	32	0	6873
8537100030	0	0	0	0	5	79	1	3	61	171
9024100000	0	9	0	3	0	334	0	0	0	1159
9031100000	0	0	0	0	0	135	0	3	0	536
300000	0	0	0	5	0	15	0	0	0	315
9032810020	100	516	0	0	13	50	0	0	149	121
810060	0	0	19	5	21556	163	210	21	7615	553

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - June 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	14	494	58	12368	1	82	1	300	0	0
8462100030	19	4117	9	2545	0	0	0	0	0	0
100050	14	1005	237	9484	3	154	0	0	0	0
210080	21	650	160	11748	0	0	0	0	0	0
290030	0	0	9	145	0	0	0	0	0	0
290040	0	0	4	20	0	0	0	0	0	0
290050	67	750	114	4451	0	0	0	0	3	75
310080	1	109	5	1188	0	0	0	0	0	0
390050	12	1305	31	1187	0	0	0	0	1	27
410080	0	0	37	4958	0	0	0	0	0	0
490050	51	915	15	471	0	0	0	0	49	582
910060	0	0	2	826	0	0	0	0	0	0
910090	23	500	257	2669	6	129	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	5	39286	0	0	0	0	0	0
990045	6	298	21	11950	0	0	0	0	0	0
990060	7	349	44	2799	0	0	0	0	3	166
8463100080	3	95	23	2882	0	0	0	0	0	0
200080	0	0	19	1000	0	0	0	0	0	0
300080	98	5176	289	10713	0	0	0	0	1	183
900080	17	2248	50	2273	0	0	0	0	30	337
9800000002	17	1221	150	6066	2	80	0	0	1	2
9900000002	612	194	698	200	0	0	0	0	189	163
Tot	982	19427	2237	129230	12	445	1	300	277	1533
Y-T-D Tot	982	19427	2237	129230	12	445	1	300	277	1533
NC YTD Tot	22	759	204	18720	0	0	0	0	0	0
C&F	22180	42014	32118	500583	11243	9436	563	5779	1415	12517
C&F Y-T-D	22180	42014	32118	500583	11243	9436	563	5779	1415	12517
C&F NC YTD	62	10369	2943	334416	76	5153	56	2609	149	1101

Other Manufacturing Technology

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	9770	0	79794	0	916	0	2021	0	1226
2000000000	0	5652	0	30264	0	896	0	566	0	99
2710003070	0	0	0	67	0	0	0	0	0	0
8428900010	3	167	793	10034	0	0	1	76	2	82
8431390080	0	800	0	16589	0	34	0	45	0	49
8456101010	0	0	52	13752	0	0	0	0	0	0
101020	0	0	1	292	0	0	0	0	0	0
105000	0	0	5	773	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	2	6	6	39	0	0	18	15	0	0
205000	0	0	3	13	0	0	0	0	0	0
8477103000	3	772	0	0	0	0	0	0	0	0
106010	13	2785	215	29633	4	337	4	201	0	0
106050	57	8437	354	40405	9	378	7	57	1	4
200005	0	0	7	1032	0	0	0	0	0	0
200015	1	20	11	2545	1	350	0	0	0	0
200035	2	222	0	0	1	4	0	0	0	0
200045	0	0	2	230	2	10	0	0	0	0
200055	1	123	5	375	0	0	0	0	0	0
200065	4	352	7	4716	0	0	0	0	0	0
300000	9	2996	18	4154	0	0	0	0	0	0
400000	74	2716	19	2978	0	0	0	0	0	0
510010	5	153	30	1545	0	0	0	0	0	0
510090	11	739	17	1926	0	0	1	59	0	0
590000	10	633	51	5204	0	0	0	0	0	0
800000	61	3140	233	29481	10	215	15	183	0	0
8479899040	3	703	1448	64169	3	36	2	57	3	3
908040	0	235	0	6399	0	0	0	0	0	0
8537100030	29	169	4535	16652	0	0	0	0	0	0
9024100000	0	305	0	1206	0	0	0	0	0	148
9031100000	0	52	0	2972	0	46	0	0	0	0
300000	0	0	0	1373	0	0	0	0	0	0
9032810020	0	0	2299	181	7540	44	0	0	0	0
810060	1011	136	328	894	28500	88	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 91 - June 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	6	1840	18	2	5	39	0	0
8462100030	0	0	0	0	0	0	4	1711	0	0
100050	0	0	5	898	19	687	9	145	1	572
210080	8	1719	5	112	3	31	2	198	0	0
290030	0	0	0	0	0	0	2	8	3	23
290040	3	108	0	0	1	24	2	83	0	0
290050	54	2147	24	601	15	280	18	2313	2	9
310080	2	53	0	0	0	0	0	0	0	0
390050	1	29	0	0	0	0	59	642	1	11
410080	0	0	1	238	0	0	0	0	6	2850
490050	6	77	4	71	9	49	5	275	1	32
910060	0	0	0	0	0	0	0	0	0	0
910090	3	2732	21	508	166	107	7	49	1	7
990030	0	0	0	0	0	0	1	1281	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	1	13	3	555	1	115	13	138	0	0
990060	5	120	1	10	18	710	11	958	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	3	53	0	0	0	0
300080	2	78	10	2811	8	170	19	310	0	0
900080	0	0	178	2366	11	95	60	1092	1	105
9800000002	9	62	129	323	31	49	1340	1548	26	1067
9900000002	29	18	190	216	3491	976	42	88	2	3
Tot	123	7156	577	10550	3794	3348	1599	10878	44	4679
Y-T-D Tot	123	7156	577	10550	3794	3348	1599	10878	1834	11923
NC YTD Tot	10	1772	6	350	3	31	3	1479	27	5474
C&F	1851	19487	1253	[illegible]973	311722	59212	3111	54772	65591	46426
C&F Y-T-D	1851	19487	1253	48973	311722	59212	3111	54772	65591	46426
C&F NC YTD	21	7731	131	18543	424	14297	203	27090	373	16584

Other Manufacturing Technology

1000000000	0	5987	0	18766	0	9758	0	23644	0	3376
2000000000	0	391	0	6459	0	2371	0	3936	0	1374
2710003070	0	0	0	0	0	8	0	4	0	0
8428900010	19	618	3	122	0	0	9	135	5	156
8431390080	0	1561	0	918	0	751	0	4072	0	917
8456101010	0	0	5	879	0	0	1	483	0	0
101020	0	0	0	0	0	0	3	516	1	112
105000	0	0	0	0	0	0	8	16	4	433
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	6	55	0	0
205000	0	0	4	7	0	0	18	109	0	0
8477103000	0	0	0	0	1	56	0	0	0	0
106010	0	0	54	4641	26	944	6	158	12	659
106050	0	0	24	3314	36	1004	20	259	18	1976
200005	0	0	0	0	0	0	1	99	0	0
200015	16	246	0	0	20	576	0	0	1	46
200035	0	0	0	0	0	0	17	744	0	0
200045	6	8	0	0	1	14	13	112	2	3
200055	2	133	0	0	2	113	0	0	0	0
200065	0	0	0	0	14	416	5	384	2	799
300000	0	0	0	0	15	194	10	184	1	28
400000	0	0	0	0	0	0	52	199	0	0
510010	0	0	0	0	0	0	16	136	18	22
510090	0	0	0	0	3	69	2	26	0	0
590000	4	290	10	676	14	613	22	2037	2	12
800000	0	0	30	3864	75	2047	93	4562	16	333
8479899040	16	857	62	2182	4	18	8	158	52	250
908040	0	452	0	606	0	23	0	974	0	281
8537100030	18	11	1	2	53	20	3	37	1	2
9024100000	0	757	0	452	0	3	0	1334	0	9
9031100000	0	12	0	4	0	0	0	36	0	0
300000	0	0	0	42	0	0	0	1390	0	15
9032810020	11	12	4327	181	0	0	4616	35	6777	147
810060	13937	789	5	4	10985	35	49	15	500	7

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 - June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	858	4044	23	1290	881	5334
Bulgaria	16	109	0	0	16	109
Czechoslovakia	72	972	4	69	76	1041
Denmark	219	1135	41	686	260	1821
Finland	66	231	75	5298	141	5528
Hungary	15	522	0	0	15	522
Ireland	159	317	2	2	161	319
Luxembourg	4	78	1	13	5	91
Netherlands	249	3223	25	711	274	3934
Norway	142	347	5	67	147	415
Poland	92	2826	2	7	94	2833
Portugal	10	82	2	36	12	119
Romania	8	462	0	0	8	462
USSR	14	326	2	28	16	354
Yugoslavia	171	1948	6	1827	177	3775
Other Europe	17	191	0	0	17	191
TOTAL	34281	386230	4853	114648	39134	500878
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	521	179	48	1004	569	1183
Oth N & C Am.	9	53	1	1	10	55
TOTAL	1963	9460	1314	25570	3277	35030
SOUTH AMERICA						
Argentina	1	62	1	36	2	98
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	267	4207	25	19732	292	23939
OCEANIA						
Australia	151	1495	22	114	173	1609
New Zealand	3	86	0	0	3	86
Oth Oceania	0	0	0	0	0	0
TOTAL	154	1580	22	114	176	1695

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 91 - June 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	50689	9249	1461	248	52150	9497
Hong Kong	10102	772	28	172	10130	944
India	49	625	5	33	54	658
Indonesia	0	0	25	2	25	2
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	31	1396	8	246	39	1642
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	80	3016	2	5	82	3021
Other Asia	0	0	0	0	0	0
TOTAL	410554	456748	7573	134029	418127	590777
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	5	568	45	29	50	596
Swaziland	2	9	0	0	2	9
Oth Africa	1	176	0	0	1	176
TOTAL	8	752	45	29	53	781

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

REPORT

A8620-3

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICAL

No. 102-91 October 9, 1991

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – JULY 1991

(Values in Millions of U.S. Dollars)

	July 1991	June 1991	Average Apr.-Jun	Year to Date '91	Year to Date '90	% Change YTD '90-'91
METAL CUTTING MACHINE TOOLS						
Exports	$ 46.6	$ 61.7	$ 56.3	$ 363.1	$ 356.2	1.9%
Imports	$118.5	$144.0	$159.0	$ 977.5	$1,034.2	(5.5%)
Balance	($ 71.9)	($ 82.3)	($102.7)	($ 614.4)	($ 678.0)	(9.4%)
METAL FORMING MACHINE TOOLS						
Exports	$ 43.9	$ 43.7	$ 44.1	$ 278.9	$ 274.4	1.6%
Imports	$ 31.9	$ 34.7	$ 53.1	$ 326.0	$ 273.2	19.3%
Balance	$ 12.0	$ 9.0	($ 9.0)	($ 47.1)	$ 1.2	NM
MACHINE TOOL TOTAL						
Exports	$ 90.5	$105.4	$100.4	$ 642.0	$ 630.6	1.8%
Imports	$150.4	$178.6	$212.1	$1,303.5	$1,307.6	(0.3%)
Balance	($ 59.9)	($ 73.2)	($111.7)	($ 661.5)	($ 676.9)	(2.3%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 20.0	$ 27.0	$ 31.0	$ 195.7	$ 203.2	(3.7%)
Imports	$ 80.8	$114.6	$118.6	$ 706.1	$ 691.0	2.2%
Balance	($ 60.8)	($ 87.6)	($ 87.6)	($ 510.4)	($ 487.8)	4.6%
OTHER MANUFACTURING TECHNOLOGY						
Exports	$150.0	$139.9	$143.0	$ 983.9	$1,056.3	(6.9%)
Imports	$177.7	$155.3	$171.7	$1,202.6	$1,151.5	4.4%
Balance	($ 27.7)	($ 15.4)	($ 28.7)	($ 218.7)	($ 95.2)	129.7%

Note: Numerically controlled machine tools is a subgroup of the machine tool total. ( ) denotes negative. NM = not meaningful. Individual items may not add up to totals due to rounding.

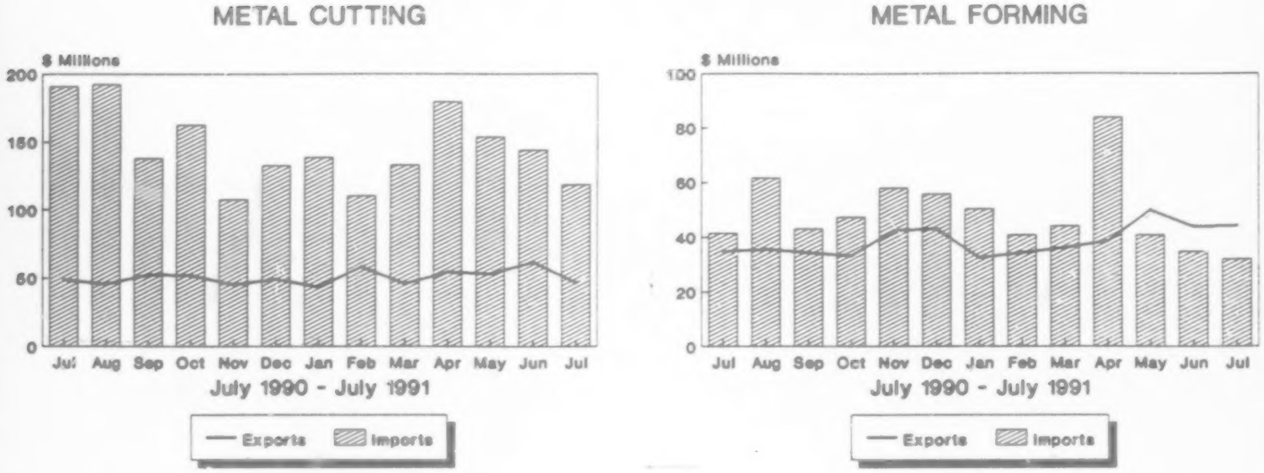
- U.S. machine tool exports fell 14% in July to $90.5 million. However, year-to-date exports ($642.0 million) are up 2% over last year's record pace.

- Machine tool imports fell for the third consecutive month in July, totalling $150.4 million, the lowest total since May 1988. Year-to-date imports are down marginally from last year at this time.

- Year-to-date exports of NC machine tools of $195.7 million are down 4% from last year. Imports of NC machines so far this year are up 2% to $706.1 million.

7901 WESTPARK DRIVE, McLEAN, VIRGINIA 22102-4269 / PHONE (703) 893-2900 / TLX: 353819 / FAX (703)893-1151

U.S. MONTHLY TRADE IN MACHINE TOOLS


METAL CUTTING

METAL FORMING

METAL CUTTING MACHINE TOOLS

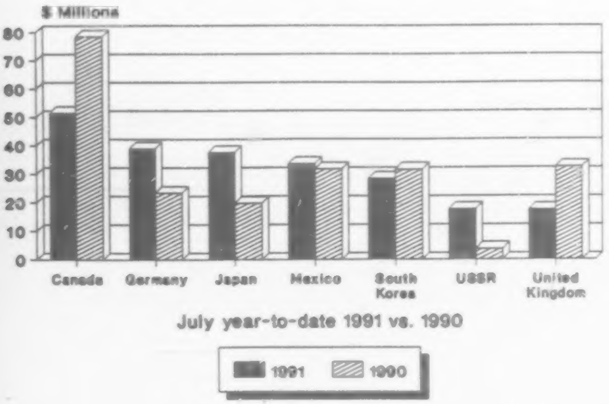
Exports

- Exports of metal cutting machines in July fell 24% from June to $46.6 million. Year-to-date exports are $363.1 million, up 2% over last year.

- The top market in July was Canada at $8.8 million, followed by South Korea ($5.8 million) and Mexico ($4.4 million). Year-to-date export leaders are Canada ($51.5 million, down 34% from last year), Germany ($38.9 million, up 67%), Japan ($37.6 million, up 89%) and Mexico ($33.6 million, up 6%).

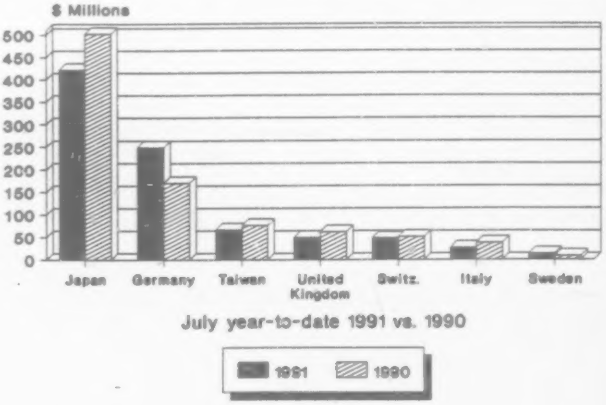
- Exports so far in 1991 of boring machines ($9.3 million) are down 25% from last year; exports of drilling machines ($14.4 million) are up 31%. Exports of NC metal cutting machines this year ($155.1 million) are up 1% over last year.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



July year-to-date 1991 vs. 1990

LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



July year-to-date 1991 vs. 1990

Imports

- Imports of metal cutting machines fell to $118.5 million in July from $144.0 million in June. Year-to-date imports are down 5% from last year at $977.5 million.

- Year-to-date imports from Japan are $422.7 million, down from $502.6 million in 1990 through July. Imports from Germany are $249.4 million, up 46% over 1990's $170.5 million. Imports from Brazil ($5.4 million) are down 40% from last year, while imports from Italy ($26.3 million) are down 29%.

- Imports of grinding machines in 1991 through July are $134.9 million, down 20% from last year; imports of non-NC lathes are down 30% at $51.0 million.

METAL FORMING MACHINE TOOLS

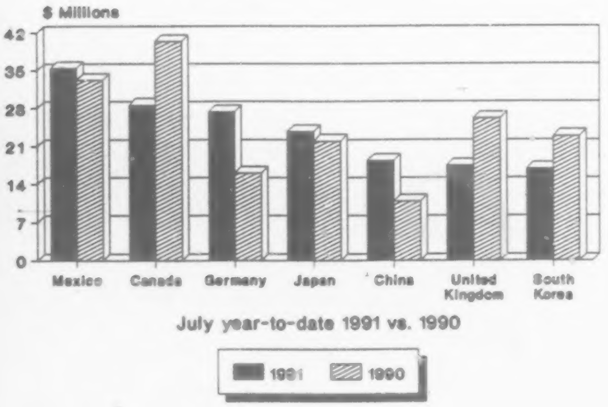
Exports

- Exports of metal forming machines rose fractionally from June to July to $43.9 million. Year-to-date exports are 2% higher than last year at $278.9 million.

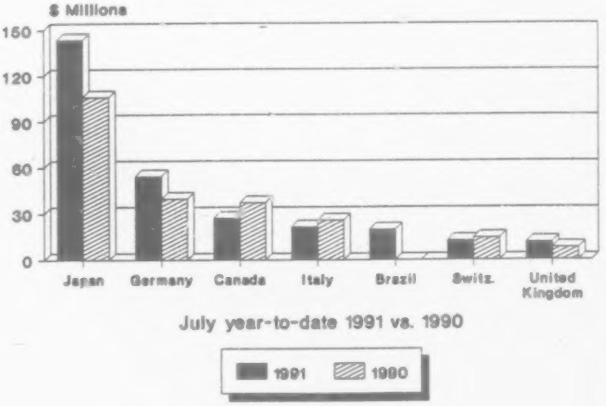
- Mexico was the top export market in July at $6.1 million, followed by South Korea ($5.0 million) and Japan ($3.7 million). Mexico is also the top year-to-date export market at $35.4 million, followed by Canada ($28.6 million), Germany ($27.3 million) and Japan ($23.7 million).

- Exports of presses in 1991 through July are down 23% to $49.2 million; exports of punching and shearing machines are down 26% to $32.0 million.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

- Metal forming machine tool imports fell for the third consecutive month to $31.9 million. Year-to-date imports are up 19%, however, largely because of an extraordinarily high April import total.

- Metal forming imports from Japan were $14.1 million in July, up from $8.2 million in June. Japan is the top year-to-date import source at $143.3 million, up 35% from last year, followed by Germany ($54.4 million, up 37%), Canada ($27.3 million, down 27%) and Italy ($21.5 million, down 17%).

OTHER MANUFACTURING TECHNOLOGY

Exports

- Exports of industrial robots so far in 1991 are $41.5 million, up from $38.0 million last year. Exports of industrial robot parts are up 33% to $81.9 million.

- Exports of numerical controls for controlling machine tools are $13.8 million in 1991 through July, down from $18.5 million last year at this time.

- Exports of machine tool parts and accessories in 1991 through July are $395.3 million, down from $416.8 million last year at this time.

Imports

- Imports of machine tool parts and accessories in July were $54.4 million, for a year-to-date total of $336.9 million. The comparable figure for 1990: $328.4 million.

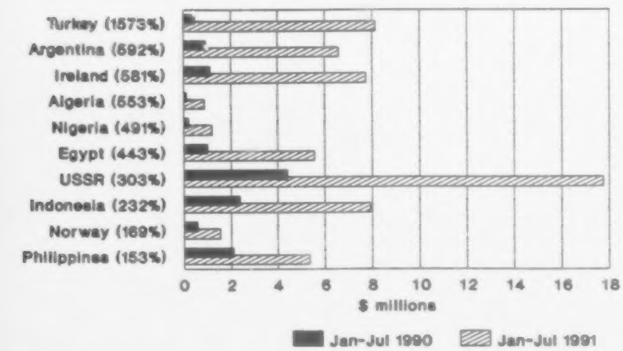
- Imports of injection molding machines in 1991 through July are $189.9 million, compared with $185.2 million last year at this time. Imports of extruders are $41.4 million, down from $45.4 million last year at this time.

MONTHLY FOCUS

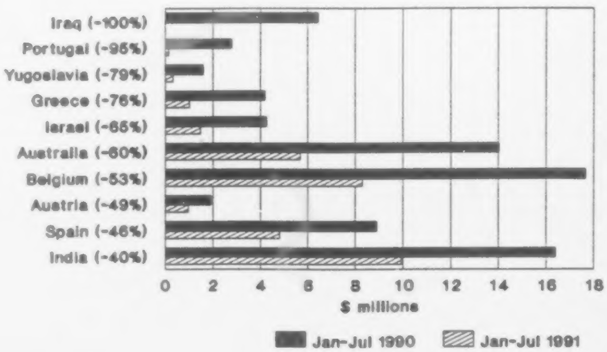
U.S. machine tool exports to Germany in the first seven months of 1991 are up 68% compared to last year. Many other countries, though, have even higher percentage increases than does Germany. Turkey tops the list: U.S. machine tool exports to Turkey in 1991 through July are $8.1 million, up from $0.5 million in 1990 through July, an increase of 1,573%. On the other hand, U.S. exports to Iraq in 1990 through July were $6.4 million; so far this year, exports are zero, a decrease of 100%.

The charts below show the biggest U.S. machine tool export gainers and losers, in percentage terms, in 1991 through July compared to 1990 through July. The figures in parentheses are the percentage increases (left chart) and decreases (right chart). Not shown on the chart on the right is the United Kingdom, exports to which this year ($34.8 million) are down 41% from last year.

Biggest % Increases in
U.S. Machine Tool Exports
Jan-July 1990 vs. Jan-July 1991



Biggest % Decreases in
U.S. Machine Tool Exports
Jan-July 1990 vs. Jan-July 1991



Source: U.S. Bureau of the Census

1991 EXPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Canada	$8,823,741	$8,154,483	8.2%	$51,483,253	$78,461,441	-34.4%
Germany	1,224,804	4,612,656	-73.4%	38,928,099	23,366,803	66.6%
Japan	3,530,080	10,974,569	-67.8%	37,587,602	19,842,514	89.4%
Mexico	4,445,568	8,218,265	-45.9%	33,602,112	31,742,173	5.9%
South Korea	5,817,849	6,400,548	-9.1%	28,405,481	31,597,285	-10.1%
USSR	1,054,809	1,372,700	-23.2%	17,623,999	3,707,174	375.4%
United Kingdom	1,752,795	3,881,998	-54.8%	17,402,796	32,517,892	-46.5%
China	2,323,683	1,135,393	104.7%	16,863,071	12,251,382	37.6%
France	186,923	646,214	-71.1%	10,540,483	6,165,548	71.0%
India	2,010,575	1,392,894	44.3%	9,104,081	10,675,717	-14.7%
Brazil	1,870,476	1,841,252	1.6%	8,412,852	9,539,234	-11.8%
Italy	573,903	1,002,598	-42.8%	8,081,255	11,627,473	-30.5%
Taiwan	1,920,267	1,565,630	22.7%	7,928,709	8,224,153	-3.6%
Venezuela	983,069	874,293	12.4%	7,218,881	3,872,097	86.4%
Belgium	167,576	668,598	-74.9%	6,409,345	15,506,901	-58.7%
Singapore	488,286	1,798,904	-72.9%	5,156,464	5,169,313	-0.2%
Indonesia	3,161,417	0	NA	4,455,891	138,051	3127.7%
Switzerland	375,402	908,911	-58.7%	3,879,515	4,115,493	-5.7%
Netherlands	244,790	135,708	80.4%	3,394,604	3,707,464	-8.4%
Australia	276,224	677,193	-59.2%	2,977,316	10,261,072	-71.0%
Malaysia	849,304	309,918	174.0%	2,485,003	1,178,213	110.9%
Thailand	58,985	53,682	9.9%	1,695,643	1,186,283	42.9%
Spain	163,989	19,984	720.6%	1,173,218	4,417,390	-73.4%
Austria	16,109	144,665	-88.9%	654,288	196,941	232.2%

METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Mexico	$6,051,875	$6,878,437	-12.0%	$35,428,042	$33,204,808	6.7%
Canada	2,166,348	4,679,687	-53.7%	28,593,757	40,372,241	-29.2%
Germany	2,570,232	2,334,464	10.1%	27,327,267	16,012,922	70.7%
Japan	3,659,636	2,640,973	38.6%	23,699,187	21,928,693	8.1%
China	974,857	1,336,266	-27.0%	18,307,222	10,878,929	68.3%
United Kingdom	2,905,793	3,884,185	-25.2%	17,431,712	26,092,024	-33.2%
South Korea	5,043,506	1,684,170	199.5%	16,840,742	22,848,009	-26.3%
France	2,650,150	3,791,859	-30.1%	16,658,011	11,269,882	47.8%
Netherlands	1,546,303	351,273	340.2%	7,733,103	4,658,807	66.0%
Thailand	1,244,039	2,841,908	-56.2%	6,352,914	3,236,827	96.3%
Italy	1,223,156	969,325	26.2%	6,064,516	5,906,682	2.7%
Taiwan	608,357	509,210	19.5%	5,265,586	9,639,920	-45.4%
Singapore	970,730	251,798	285.5%	4,220,035	4,016,294	5.1%
Brazil	46,349	1,271,121	-96.4%	4,068,933	4,069,335	0.0%
Spain	274,532	2,623,337	-89.5%	3,636,371	4,469,343	-18.6%
Indonesia	18,800	108,013	-82.6%	3,456,499	2,246,143	53.9%
Australia	695,217	624,611	11.3%	2,693,478	3,760,701	-28.4%
Belgium	80,830	1,010,320	-92.0%	1,884,644	2,156,630	-12.6%
Venezuela	203,132	507,503	-60.0%	1,527,964	968,175	57.8%
Switzerland	137,446	110,417	24.5%	1,435,178	1,495,331	-4.0%
Malaysia	46,590	3,393	1273.1%	860,124	3,912,245	-78.0%
India	30,055	111,902	-73.1%	819,590	5,719,341	-85.7%
Austria	136,632	0	NA	324,289	1,722,788	-81.2%
USSR	97,244	25,640	279.3%	122,884	694,819	-82.3%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Canada	10,990,089	12,834,170	-14.4%	80,077,010	118,833,682	-32.6%
Mexico	10,497,443	15,096,702	-30.5%	69,030,154	64,946,981	6.3%
Germany	3,795,036	6,947,120	-45.4%	66,255,366	39,379,725	68.2%
Japan	7,189,716	13,615,542	-47.2%	61,286,789	41,771,207	46.7%
South Korea	10,861,355	8,084,718	34.3%	45,246,223	54,445,294	-16.9%
China	3,298,540	2,471,659	33.5%	35,170,293	23,130,311	52.1%
United Kingdom	4,658,588	7,766,183	-40.0%	34,834,508	58,609,916	-40.6%
France	2,837,073	4,438,073	-36.1%	27,198,494	17,435,430	56.0%
USSR	1,152,053	1,398,340	-17.6%	17,746,883	4,401,993	303.2%
Italy	1,797,059	1,971,923	-8.9%	14,145,771	17,534,155	-19.3%
Taiwan	2,528,624	2,074,840	21.9%	13,194,295	17,864,073	-26.1%
Brazil	1,916,825	3,112,373	-38.4%	12,481,785	13,608,569	-8.3%
Netherlands	1,791,093	486,981	267.8%	11,127,707	8,366,271	33.0%
India	2,040,630	1,504,796	35.6%	9,923,671	16,395,058	-39.5%
Singapore	1,459,016	2,050,702	-28.9%	9,376,499	9,185,607	2.1%
Venezuela	1,186,201	1,381,796	-14.2%	8,746,845	4,840,272	80.7%
Belgium	248,406	1,678,918	-85.2%	8,293,989	17,663,531	-53.0%
Thailand	1,303,024	2,895,590	-55.0%	8,048,557	4,423,110	82.0%
Indonesia	3,180,217	108,013	2844.3%	7,912,390	2,384,194	231.9%
Australia	971,441	1,301,804	-25.4%	5,670,794	14,021,773	-59.6%
Switzerland	512,848	1,019,328	-49.7%	5,314,693	5,610,824	-5.3%
Spain	438,521	2,643,321	-83.4%	4,809,589	8,886,733	-45.9%
Malaysia	895,894	313,311	185.9%	3,345,127	5,090,458	-34.3%
Austria	152,741	144,665	5.6%	978,577	1,919,729	-49.0%

1991 IMPORTS

METAL CUTTING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Japan	$51,360,545	$53,601,710	-4.2%	$422,713,097	$502,608,205	-15.9%
Germany	19,446,328	52,275,221	-62.8%	249,442,443	170,473,384	46.3%
Taiwan	11,297,402	8,265,642	36.7%	67,161,491	77,014,155	-12.8%
United Kingdom	6,173,669	5,023,408	22.9%	50,066,854	61,621,529	-18.8%
Switzerland	9,609,206	6,543,203	46.9%	48,032,891	51,009,993	-5.8%
Italy	3,734,233	5,076,750	-26.4%	26,321,001	37,159,582	-29.2%
Sweden	626,357	868,907	-27.9%	12,956,875	8,705,371	48.8%
Spain	1,170,722	1,016,548	15.2%	12,154,267	16,265,148	-25.3%
France	2,151,021	948,235	126.8%	12,056,444	18,254,529	-34.0%
Canada	2,225,693	1,997,968	11.4%	11,453,255	14,097,370	-18.8%
South Korea	2,165,159	1,511,994	43.2%	11,155,720	11,163,927	-0.1%
Singapore	1,142,319	1,153,400	-1.0%	6,621,154	12,556,124	-47.3%
Brazil	1,271,352	412,183	208.4%	5,415,807	9,002,076	-39.8%
Belgium	387,565	3,820	10045.7%	1,684,557	1,027,318	64.0%

METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Japan	$14,119,721	$8,193,742	72.3%	$143,349,725	$105,903,270	35.4%
Germany	5,414,485	9,664,765	-44.0%	54,433,077	39,858,867	36.6%
Canada	2,736,139	3,827,395	-28.5%	27,300,847	37,303,640	-26.8%
Italy	2,118,764	2,189,022	-3.2%	21,546,213	25,807,866	-16.5%
Brazil	43,982	0	NA	19,740,871	0	NA
Switzerland	1,918,276	3,178,774	-39.7%	12,467,998	14,330,264	-13.0%
United Kingdom	574,713	696,966	-17.5%	11,453,054	7,960,867	43.9%
Sweden	684,500	887,335	-22.9%	7,840,820	4,903,181	59.9%
Belgium	351,297	484,540	-27.5%	5,299,975	16,358,081	-67.6%
Taiwan	821,531	381,556	115.3%	4,169,713	6,573,583	-36.6%
Spain	528,389	276,854	90.9%	2,061,402	2,811,010	-26.7%
France	152,134	110,501	37.7%	1,254,389	2,455,522	-48.9%
South Korea	66,900	82,000	-18.4%	512,235	123,692	314.1%
Singapore	0	0	NA	300,254	64,967	362.2%

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JULY	JUNE	% CHANGE	JULY'91 YTD	JULY'90 YTD	% CHANGE
Japan	$65,480,266	$61,795,452	6.0%	$566,062,822	$608,511,475	-7.0%
Germany	24,860,813	61,939,986	-59.9%	303,875,520	210,332,251	44.5%
Taiwan	14,033,541	12,093,037	16.0%	94,462,338	114,317,795	-17.4%
United Kingdom	8,292,433	7,212,430	15.0%	71,613,067	87,429,395	-18.1%
Switzerland	9,653,188	6,543,203	47.5%	67,773,762	51,009,993	32.9%
Italy	5,652,509	8,255,524	-31.5%	38,788,999	51,489,846	-24.7%
Sweden	1,201,070	1,565,873	-23.3%	24,409,929	16,666,238	46.5%
Spain	1,855,222	1,903,883	-2.6%	19,995,087	21,168,329	-5.5%
France	2,502,318	1,432,775	74.6%	17,356,419	34,612,610	-49.9%
Canada	3,047,224	2,379,524	28.1%	15,622,968	20,670,953	-24.4%
South Korea	2,693,548	1,788,848	50.6%	13,217,122	13,974,937	-5.4%
Singapore	1,294,453	1,263,901	2.4%	7,875,543	15,011,646	-47.5%
Brazil	1,338,252	494,183	170.8%	5,928,042	9,125,768	-35.0%
Belgium	387,565	3,820	10045.7%	1,984,811	1,092,285	81.7%

1991 U.S. EXPORTS
BY PRODUCT GROUPS

	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	5,350	13,231,937	5,314	9,384,660	5,918	12,359,757	5,272	15,333,596
Boring machines	8	572,189	8	2,689,884	7	490,980	10	781,577
Drilling machines	104	2,125,292	72	2,302,444	98	2,731,002	94	1,177,353
Gear cutting machines	14	7,378,919	23	3,441,470	16	3,898,627	22	6,720,535
Grinding machines	244	5,937,543	272	10,254,977	275	8,387,839	313	11,543,197
NC horizontal lathes	15	2,388,500	33	3,043,968	29	3,419,112	38	4,707,962
NC vertical lathes	1	161,310	2	341,835	6	371,174	1	89,700
Non-NC lathes	37	817,093	46	1,273,108	34	912,266	64	1,399,820
Milling machines	21	1,285,651	27	1,256,940	56	1,629,636	35	6,730,275
Machining centers	18	2,251,834	27	4,699,366	21	6,179,301	33	5,723,799
Station type machines	7	6,763,963	10	16,280,662	3	3,750,445	0	0
Other metal cutting machines	223	7,078,662	278	7,046,503	322	7,317,458	266	6,517,985
Punching & shearing machines	108	4,513,331	79	5,456,279	85	4,584,562	157	4,594,728
Bending & forming machines	116	4,251,882	102	6,952,107	119	7,232,573	120	4,830,552
Presses	293	7,418,063	96	5,734,227	128	4,847,879	168	7,262,958
Forging machines	11	2,746,151	19	5,146,204	21	4,124,370	11	868,133
Other metal forming machines	231	7,030,224	185	7,182,512	193	9,543,993	308	14,549,088
MACHINE TOOL TOTAL	6,801	75,952,544	6,593	92,487,146	7,331	81,780,974	6,912	92,831,258

	MAY 1991		JUNE 1991		JULY 1991		JULY 1991 YTD	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	5,847	14,473,978	6,716	15,068,308	5,909	16,595,564	40,326	96,447,800
Boring machines	9	811,684	29	2,458,144	53	1,485,134	124	9,289,592
Drilling machines	81	1,767,423	182	2,096,676	182	2,218,922	813	14,419,112
Gear cutting machines	39	6,598,232	42	10,858,258	11	4,027,477	167	42,923,518
Grinding machines	285	9,241,644	390	12,599,243	398	11,576,263	2,177	69,540,706
NC horizontal lathes	19	1,914,295	25	2,373,736	26	2,567,207	185	20,414,780
NC vertical lathes	9	592,211	2	108,000	4	269,504	25	1,933,734
Non-NC lathes	45	1,357,057	49	2,263,152	27	407,865	302	8,430,361
Milling machines	57	5,134,958	73	6,889,800	57	3,124,857	326	26,052,117
Machining centers	37	5,715,931	24	2,660,799	26	3,139,607	186	30,370,637
Station type machines	4	3,143,769	6	2,649,559	5	4,718,427	35	37,306,825
Other metal cutting machines	341	8,257,118	273	9,131,128	198	4,100,231	1,901	49,449,085
Punching & shearing machines	111	5,445,644	129	3,810,698	132	3,568,471	801	31,973,713
Bending & forming machines	108	5,331,914	257	9,068,216	169	6,262,244	991	43,929,488
Presses	96	6,098,800	210	6,552,960	199	11,252,200	1,190	49,167,087
Forging machines	40	4,435,634	40	5,388,723	57	8,447,700	199	31,156,915
Other metal forming machines	223	22,718,552	234	11,390,564	225	6,748,375	1,599	79,163,308
MACHINE TOOL TOTAL	7,351	103,038,844	8,681	105,367,964	7,678	90,510,048	51,347	641,968,778

1991 U.S. EXPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JULY 1990		JULY 1990 YTD		% CHANGE JUNE'91–JULY'91		% CHANGE JULY'90–JULY'91	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	5,058	13,126,467	35,220	94,440,495	-12.0%	10.1%	16.8%	26.4%
Boring machines	16	3,194,775	109	12,453,146	82.8%	-39.6%	231.3%	-53.5%
Drilling machines	61	1,735,259	641	11,004,304	0.0%	5.8%	198.4%	27.9%
Gear cutting machines	35	8,746,125	155	33,448,601	-73.8%	-62.9%	-68.6%	-54.0%
Grinding machines	390	11,166,259	2,154	75,281,058	2.1%	-8.1%	2.1%	3.7%
NC horizontal lathes	30	3,555,437	270	29,614,652	4.0%	8.2%	-13.3%	-27.8%
NC vertical lathes	5	276,808	36	2,963,166	100.0%	149.5%	-20.0%	-2.6%
Non-NC lathes	65	899,416	457	10,245,650	-44.9%	-82.0%	-58.5%	-54.7%
Milling machines	33	5,244,894	268	22,703,779	-21.9%	-54.6%	72.7%	-40.4%
Machining centers	24	2,387,041	261	39,839,987	8.3%	18.0%	8.3%	31.5%
Station type machines	1	245,000	51	21,066,899	-16.7%	78.1%	400.0%	1825.9%
Other metal cutting machines	267	4,712,434	2,388	46,536,558	-27.5%	-55.1%	-25.8%	-13.0%
Punching & shearing machines	143	5,170,365	977	43,232,018	2.3%	-6.4%	-7.7%	-31.0%
Bending & forming machines	136	5,191,915	970	34,821,825	-34.2%	-30.9%	24.3%	20.6%
Presses	145	5,027,176	1,439	63,773,856	-5.2%	71.7%	37.2%	123.8%
Forging machines	42	5,222,953	248	29,333,239	42.5%	56.8%	35.7%	61.7%
Other metal forming machines	230	7,705,041	1,938	59,856,665	-3.8%	-40.8%	-2.2%	-12.4%
MACHINE TOOL TOTAL	6,681	83,607,365	47,582	630,615,898	-11.6%	-14.1%	14.9%	8.3%

PRODUCT TYPES	% CHANGE YTD'90–YTD'91	
	Units	Value
Used & rebuilt & under $2,500	14.5%	2.1%
Boring machines	13.8%	-25.4%
Drilling machines	26.8%	31.0%
Gear cutting machines	7.7%	28.3%
Grinding machines	1.1%	-7.6%
NC horizontal lathes	-31.5%	-31.1%
NC vertical lathes	-30.6%	-34.7%
Non-NC lathes	-33.9%	-17.7%
Milling machines	21.6%	14.7%
Machining centers	-28.7%	-23.8%
Station type machines	-31.4%	77.1%
Other metal cutting machines	-20.4%	6.3%
Punching & shearing machines	-18.0%	-26.0%
Bending & forming machines	2.2%	26.2%
Presses	-17.3%	-22.9%
Forging machines	-19.8%	6.2%
Other metal forming machines	-17.5%	32.3%
MACHINE TOOL TOTAL	7.9%	1.8%

1991 U.S. IMPORTS BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1991		FEBRUARY 1991		MARCH 1991		APRIL 1991	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	71,667	13,094,991	94,612	15,968,463	63,827	14,630,134	91,842	16,332,717
Boring machines	75	3,212,626	65	3,295,233	55	6,672,018	47	5,623,400
Drilling machines	136	5,284,960	72	2,124,951	105	5,761,640	107	2,964,231
Gear cutting machines	34	7,247,022	30	2,608,872	12	3,256,264	23	6,619,154
Grinding machines	662	23,141,603	464	17,045,322	540	20,820,588	509	26,824,722
NC horizontal lathes	158	17,509,455	251	25,854,656	244	28,306,454	280	25,531,297
NC vertical lathes	9	1,367,349	15	2,253,656	9	2,973,011	15	3,573,928
Non-NC lathes	722	8,815,703	340	4,755,176	312	7,055,881	317	4,534,633
Milling machines	449	12,771,541	257	2,795,380	250	4,970,541	330	9,449,803
Machining centers	293	33,595,255	212	22,089,069	167	23,849,656	189	59,165,452
Station type machines	14	4,189,738	4	1,830,253	5	1,401,630	19	4,376,300
Other metal cutting machines	448	11,368,644	217	12,635,073	254	16,773,980	329	18,589,257
Punching & shearing machines	67	5,697,766	59	1,638,364	89	5,334,266	100	4,429,933
Bending & forming machines	189	6,557,096	183	8,695,550	147	8,228,937	122	3,949,688
Presses	72	16,236,188	317	9,033,944	163	8,995,976	85	51,444,817
Forging machines	59	5,028,586	47	2,528,010	51	5,954,214	44	6,285,995
Other metal forming machines	286	13,786,011	230	15,783,509	277	12,006,374	243	13,702,533
MACHINE TOOL TOTAL	75,340	188,904,534	97,375	150,935,481	66,507	176,991,564	94,601	263,397,860

PRODUCT TYPES	MAY 1991		JUNE 1991		JULY 1991		JULY 1991 YTD	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	61,461	13,487,177	60,137	11,892,444	55,148	13,352,862	498,694	98,758,788
Boring machines	53	7,001,111	55	3,314,472	51	3,685,439	401	32,804,299
Drilling machines	79	6,287,879	146	3,825,684	73	2,839,334	718	29,088,679
Gear cutting machines	91	4,865,147	57	3,552,435	32	3,543,870	279	31,692,764
Grinding machines	515	14,511,571	382	13,752,180	468	18,779,695	3,540	134,875,681
NC horizontal lathes	197	20,692,781	196	20,231,721	199	18,351,920	1,525	156,478,284
NC vertical lathes	2	1,159,139	6	908,254	10	2,266,809	66	14,502,146
Non-NC lathes	442	10,258,079	402	8,630,438	555	6,940,660	3,090	50,990,570
Milling machines	226	5,441,990	328	6,999,359	374	6,736,063	2,214	49,164,677
Machining centers	199	40,498,256	231	62,377,569	249	23,528,172	1,540	265,103,429
Station type machines	16	13,375,688	8	1,595,456	8	8,078,447	74	34,847,512
Other metal cutting machines	252	18,837,312	314	9,426,321	298	12,496,402	2,112	100,126,989
Punching & shearing machines	109	4,442,498	74	5,337,144	106	5,805,391	604	32,685,362
Bending & forming machines	124	7,388,462	129	5,919,854	156	7,413,619	1,050	48,153,206
Presses	301	9,718,955	131	5,872,448	102	5,129,418	1,171	106,431,746
Forging machines	152	6,220,779	69	5,986,386	35	1,841,002	457	33,844,972
Other metal forming machines	172	10,036,703	180	9,024,713	194	9,644,967	1,582	83,984,810
MACHINE TOOL TOTAL	64,391	194,223,527	62,845	178,646,878	58,058	150,434,070	519,117	1,303,533,914

1991 U.S. IMPORTS
BY PRODUCT GROUPS

	JULY 1990		JULY 1990 YTD		% CHANGE JUNE'91–JULY'91		% CHANGE JULY'90–JULY'91	
PRODUCT TYPES	Units	Value	Units	Value	Units	Value	Units	Value
Used & rebuilt & under $2,500	76,189	13,858,003	537,734	89,154,708	-8.3%	12.3%	-27.6%	-3.6%
Boring machines	88	7,667,947	369	23,308,613	-7.3%	11.2%	-42.0%	-51.9%
Drilling machines	220	7,524,179	932	27,563,916	-50.0%	-25.8%	-66.8%	-62.3%
Gear cutting machines	28	3,959,955	286	25,115,163	-43.9%	-0.2%	14.3%	-10.5%
Grinding machines	780	38,441,928	5,105	169,387,746	22.5%	36.6%	-40.0%	-51.1%
NC horizontal lathes	306	27,483,344	1,997	189,198,638	1.5%	-9.3%	-35.0%	-33.2%
NC vertical lathes	28	3,717,107	98	15,742,834	66.7%	149.6%	-64.3%	-39.0%
Non-NC lathes	799	9,013,925	5,112	72,736,825	38.1%	-19.6%	-30.5%	-23.0%
Milling machines	558	9,880,698	3,444	50,306,041	14.0%	-3.8%	-33.0%	-31.8%
Machining centers	272	46,323,978	1,997	248,010,154	7.8%	-62.3%	-8.5%	-49.2%
Station type machines	13	9,081,198	107	37,159,415	0.0%	406.3%	-38.5%	-11.0%
Other metal cutting machines	431	15,980,415	2,949	101,680,135	-5.1%	32.6%	-30.9%	-21.8%
Punching & shearing machines	138	8,166,921	1,052	43,912,030	43.2%	8.8%	-23.2%	-28.9%
Bending & forming machines	162	6,083,506	1,350	48,392,727	20.9%	25.2%	-3.7%	21.9%
Presses	281	6,834,799	1,710	50,267,254	-22.1%	-12.7%	-63.7%	-25.0%
Forging machines	90	6,719,333	597	37,373,610	-49.3%	-69.2%	-61.1%	-72.6%
Other metal forming machines	297	11,238,578	1,630	78,200,032	7.8%	6.9%	-34.7%	-14.2%
MACHINE TOOL TOTAL	80,680	231,975,814	566,469	1,307,509,841	-7.6%	-15.8%	-28.0%	-35.2%

	% CHANGE YTD'90–YTD'91	
PRODUCT TYPES	Units	Value
Used & rebuilt & under $2,500	-7.3%	10.8%
Boring machines	8.7%	40.7%
Drilling machines	-23.0%	5.5%
Gear cutting machines	-2.4%	26.2%
Grinding machines	-30.7%	-20.4%
NC horizontal lathes	-23.6%	-17.3%
NC vertical lathes	-32.7%	-7.9%
Non-NC lathes	-39.6%	-29.9%
Milling machines	-35.7%	-2.3%
Machining centers	-22.9%	6.9%
Station type machines	-30.8%	-6.2%
Other metal cutting machines	-28.4%	-1.5%
Punching & shearing machines	-42.6%	-25.6%
Bending & forming machines	-22.2%	-0.5%
Presses	-31.5%	111.7%
Forging machines	-23.5%	-9.4%
Other metal forming machines	-2.9%	7.4%
MACHINE TOOL TOTAL	-8.4%	-0.3%

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

RELEASED: October 9, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	77	5475	6	330
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	53	7685	9	1404
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	12	2496	2	277
100035	Horizontal machining centers, ATC	26	9887	1	682
100045	Machining centers, n.e.c.	95	10303	14	776
200010	Unit construction mach. (single station transfer), NC	5	2147	0	0
200090	Unit construction mach. (single station transfer), non-NC	10	2767	2	272
300010	Multi-station transfer machines, NC	8	14559	0	0
300090	Multi-station transfer machines, non-NC	10	17657	2	4307
8458110010	Horizontal lathes, multiple spindle, NC	21	3042	4	411
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	128	10950	19	1765
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	20	3303	0	0
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	16	3119	3	391
190030	Horizontal engine or toolroom lathes, non-NC	26	356	4	101
190050	Automatic bar and/or chucking mach., single spindle, non-NC	15	174	1	39
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	32	1740	1	19
190090	Horizontal lathes, n.e.c., non-NC	160	4159	15	125
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	1	261	0	0
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	0	0	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	24	1672	4	270
991050	Vertical turret lathes, non-NC	26	401	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	43	1601	6	123
8459100000	Way-type unit head machines	2	177	1	139
210080	Other drilling machines, NC	120	8980	19	1428
290040	Drilling machines, multiple spindle, non-NC	0	0	0	0
290050	Drilling machines, radial, non-NC	13	246	0	0
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	18	613	1	4
290090	Drilling machines, n.e.c., non-NC	662	4580	162	787
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	394	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	4	2971	0	0
310070	Boring-milling machines, n.e.c., NC	16	1127	2	167
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	113	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	10	252	0	0
400040	Boring machines, vertical, NC	6	471	6	471
400050	Boring machines, vertical, non-NC	24	1161	0	0
400070	Boring machines, n.e.c., NC	1	148	0	0
400080	Boring machines, n.e.c., non-NC	60	2651	45	846
510080	Milling machines, knee type, NC	14	1110	2	126
590030	Milling machines, knee type, non-NC	70	2609	8	258
610080	Milling machines, excluding knee type, n.e.c., NC	45	16480	4	812
690050	Milling machines, profile, dup., or die sinking, non-NC	3	24	3	24
690070	Milling machines, bed type, non-NC	1	37	0	0
690090	Milling machines, n.e.c., non-NC	193	5793	40	1905
700020	Threading or tapping machines, n.e.c., NC	45	1969	0	0
700080	Threading or tapping machines, n.e.c., non-NC	145	5183	7	115
8460110080	Flat surface grinding machines, NC	35	3469	13	484
190010	Flat surface grinding mach., recip.-table type, non-NC	49	700	3	25
190050	Flat surface grinding machines, n.e.c., non-NC	22	2591	1	97
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	86	28619	10	3685
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	25	4348	8	1550
290030	Grinding machines, internal cylindrical, non-NC	11	786	2	440
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	250	7400	76	1523
310080	Sharpening machines (tool & cutter grinding), NC	20	1457	5	142
390050	Sharpening machines (tool & cutter grinding), non-NC	604	5422	88	734
400060	Honing or lapping machines, NC	1	50	0	0
400080	Honing or lapping machines, non-NC	375	5629	78	1689
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	3	77	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	696	8992	114	1208
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	105	2805	18	224
200010	Shaping or slotting machines, NC	9	1050	0	0
200090	Shaping or slotting machines, non-NC	25	667	0	0
300060	Broaching machines, NC	3	490	1	152
300080	Broaching machines, non-NC	29	1523	4	547
401050	Gear hobbers	40	3188	0	0
401070	Gear shapers	6	672	1	70
401090	Gear cutting machines, n.e.c.	75	33780	9	3933
405060	Gear grinding or finishing machines	46	5283	1	25
500050	Sawing or cutting-off machines, NC	53	2967	13	582
500090	Sawing or cutting-off machines, non-NC	928	11200	87	950
9000000001	Metal cutting machine tools, n.e.c.	482	16119	62	1201
9800000001	Used or rebuilt machine tools	3186	38390	488	7058
9900000001	Machine tools valued at less than $3,025	25429	14564	3763	1953
	Cutting Total			5238	46647
	Y-T-D Cutting Total	34856	363084		
	NC Y-T-D Cutting Total*	1086	155061		

Please see notes on last page
of the metal forming section.

U.S. EXPORTS

Metal Cutting Machine Tools - July 91

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	70
8457100015	0	0	0	0	0	0	0	0	2	266
100025	0	0	0	0	0	0	0	0	1	104
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	70	0	0	1	86
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	1842
8458110010	0	0	0	0	0	0	0	0	2	207
110030	0	0	0	0	0	0	0	0	3	258
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	3	391
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	39
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	1	9
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	6	0	0	0	0	0	0	19	130
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	45
510080	0	0	0	0	0	0	0	0	1	42
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	480
690050	0	0	0	0	0	0	0	0	2	14
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	4	24
8460110080	0	0	0	0	0	0	1	23	0	0
190010	0	0	0	0	0	0	0	0	2	14
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	1002
290010	0	0	0	0	0	0	4	1382	0	0
290030	0	0	0	0	0	0	2	440	0	0
290050	4	107	0	0	0	0	0	0	2	28
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	50
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	16	0	0	40	1032
900060	0	0	0	0	0	0	0	0	0	0
900080	3	33	0	0	0	0	0	0	27	258
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	1	152
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	25
500050	0	0	0	0	0	0	0	0	13	582
500090	1	5	1	16	0	0	0	0	21	145
9000000001	7	75	0	0	0	0	0	0	9	130
9800000001	0	0	0	0	0	0	0	0	45	1214
9900000001	40	51	0	0	64	81	41	26	181	184
Month Tot	56	276	1	16	66	168	48	1870	395	8824
Y-T-D Tot	539	2977	54	654	728	6409	304	8413	3367	51483
NC YTD Tot*	5	1124	0	0	39	4185	28	4121	190	29797

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	2	129	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	682	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	2465
8458110010	0	0	0	0	0	0	0	0	0	0
110030	3	303	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	7	628	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	1	111	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	33	1	19	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	8	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	2	1160	0	0	0	0	0	0	2	692
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	11	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	40	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	47	0	0	11	101	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	20	1	10	12	98	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	3	42	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	2	611	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	0	0	0	0	1	14	7	400	0	0
9800000001	0	0	2	8	2	4	100	967	0	0
9900000001	0	0	174	119	309	167	21	14	3	5
Month Tot	11	2324	181	187	353	1225	131	2011	6	3161
Y-T-D Tot	500	16863	1088	10540	2464	38928	466	9104	29	4456
NC YTD Tot*	35	11903	29	6443	156	25245	11	2014	3	723

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	1	32	0	0	0	0	0	0
8457100015	0	0	0	0	1	92	0	0	1	160
100025	0	0	0	0	0	0	0	0	1	173
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	5	371
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	272	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	1	58	0	0	0	0	1	146
110030	0	0	7	512	4	501	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	3	54
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	19
190090	0	0	0	0	0	0	0	0	8	85
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	270
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	3	41
8459100000	0	0	0	0	0	0	0	0	1	139
210080	0	0	0	0	2	102	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	1	4
290090	0	0	0	0	61	272	0	0	15	77
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	56
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	6	471	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	20
610080	0	0	0	0	1	150	0	0	1	105
690050	0	0	0	0	0	0	0	0	1	10
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	32	1847	0	0	8	57
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	74	1	10
8460110080	4	109	0	0	0	0	0	0	5	243
190010	0	0	0	0	0	0	0	0	1	10
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	3	643	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	266
310080	0	0	0	0	0	0	0	0	3	97
390050	0	0	30	387	39	232	1	4	2	14
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	84	2	175	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	2	26	7	81	12	240	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	8	0	0	0	0	5	70
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	531	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	3	1505	2	670	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	23	406	15	163	1	21	0	0	8	40
9000000001	0	0	0	0	13	148	0	0	6	52
9800000001	1	33	7	76	6	81	2	555	197	1446
9900000001	0	0	53	65	333	103	50	42	1386	409
Month Tot	30	574	128	3530	519	5818	56	849	1681	4446
Y-T-D Tot	675	8081	3893	37588	2444	28405	160	2485	6523	33602
NC YTD Tot*	14	3640	89	9876	49	9742	5	129	135	13156

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	33	1	66
8457100015	0	0	0	0	0	0	0	0	5	886
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	1	47
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	14	0	0	0	0	1	27
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	2	110
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	8	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	3	141	0	0	0	0	0	0
610080	0	0	1	77	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	2	84
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	97	0	0	0	0
210080	1	188	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	2	131	2	37
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	9	440
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	3	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	5	15	170	1	15
900060	0	0	0	0	0	0	0	0	0	0
900080	3	30	0	0	5	49	1	6	4	18
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	1	92
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	5	52	0	0	0	0	0	0
9000000001	0	0	1	64	1	10	0	0	0	0
9800000001	0	0	1	3	0	0	4	17	21	13
9900000001	33	26	223	129	0	0	23	19	270	85
Month Tot	37	245	236	488	9	164	46	375	320	1920
Y-T-D Tot	452	3395	1800	5156	182	1173	655	3880	1052	7929
NC YTD Tot*	6	1317	16	1241	1	27	17	2258	26	3220

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - July 91

	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	7	249
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	92	0	0	1	99	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	6	31
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	41	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	8	588
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	57	255	0	0	0	0	8	39
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	44	801
510080	0	0	0	0	0	0	0	0	1	84
590030	0	0	1	18	0	0	0	0	1	27
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	25
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	49	672
310080	0	0	0	0	0	0	0	0	2	45
390050	0	0	0	0	0	0	0	0	1	4
400060	0	0	0	0	0	0	0	0	0	0
400080	1	15	3	30	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	3	30	9	81	0	0	16	172	7	55
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	4	2	8	0	0	1	14	5	80
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	16	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	70
401090	0	0	0	0	1	1055	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	4	19	0	0	1	6	7	77
9000000001	0	0	1	28	0	0	1	15	15	265
9800000001	3	7	31	1096	0	0	18	611	48	928
9900000001	55	4	85	70	0	0	56	67	363	287
Month Tot	63	59	196	1753	1	1055	94	983	574	4326
Y-T-D Tot	558	1696	2359	17403	153	17624	582	7219	3829	37620
NC YTD Tot*	13	800	98	9424	4	324	18	1822	99	12530

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

RELEASED: October 9, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	197	4314	33	510
8462100030	Headers and upsetters, including cold headers	33	13295	8	4624
100050	Forging or die stamping machines, and hammers, n.e.c.	166	17862	49	3823
210080	Bending, folding, straight. or flat. mach., incl presses, NC	158	17386	21	2487
290030	Press brakes, non-NC	68	2615	4	163
290040	Bending rolls, non-NC	40	1085	5	123
290050	Bending, folding, straight., or flat., n.e.c., non-NC	725	22843	139	3489
310080	Shearing machines, NC	65	4996	11	561
390050	Shearing machines, non-NC	200	5033	51	864
410080	Punching or notching mach., incl. comb. punch & shear, NC	67	10820	5	810
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	469	11125	65	1333
910060	Hydraulic presses, NC	18	773	6	297
910090	Hydraulic presses, non-NC	362	10693	69	4286
990030	Presses, n.e.c., NC	128	6636	8	930
990040	Presses, mechanical, non-NC	114	9748	11	673
990060	Presses, n.e.c., non-NC	568	21318	105	5066
8463100080	Draw benches for bars, tubes, profiles, wire or the like	145	5647	5	149
200080	Thread rolling machines	25	774	2	61
300080	Machines for working wire	453	13698	73	1866
900080	Metal forming machine tools, n.e.c.	779	54731	112	4163
9800000002	Used or rebuilt machine tools	2207	36053	329	6579
9900000002	Machine tools valued at less than $3,025	9504	7441	1329	1005
	Forming Total			2440	43863
	Y-T-D Forming Total	16491	278885		
	NC Y-T-D Forming Total	436	40612		
	Cutting and Forming Totals:				
	Monthly Total			7678	90510
	Y-T-D Total	51347	641969		
	NC Y-T-D Total*	1522	195673		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	395349	0	60178
2000000000	Parts for working rubber or plastics - heading 8477	0	158152	0	27060
2710003070	Quenching or cutting oils	0	3977	0	783
8428900010	Industrial robots for lifting, handling, loading or unload	358	3559	6	102
8431390090	Parts industrial robots, handling and loading - heading 8428	0	60393	0	8962
8456100000	Laser, light or photon beam for working any material	375	22992	49	2900
200000	Ultrasonic process for working any material	42	1022	4	113
8477106010	Injection molding mach., for rubber or oth. thermosetting	160	10630	64	3545
106070	Injection molding machines, for thermoplastics	237	27766	42	3962
200005	Extruders; rubber or other thermosetting mat., single screw	84	6446	18	1322
200015	Extruders; rubber or thermosetting, other incl. multi. screw	96	8693	11	1291
200030	Extruders; thermoplastics, single screw	321	14394	76	3716
200060	Extruders; thermoplastics, other incl. multi. screw	64	6744	8	653
300000	Blow molding machines	332	19228	30	537
400000	Vacuum-molding and other thermoforming machines	657	4958	56	528
510010	Machines for molding or retreading pneumatic tires	1848	8950	112	518
510090	Machines for molding or otherwise forming inner tubes	378	8615	53	342
590000	Machines for molding or otherwise forming n.e.c.	973	15795	91	1548
800000	Machines for working rubber or plastics n.e.c.	2959	42123	500	5459
8479899040	Industrial robots, n.e.c.	3363	37959	596	5630
908040	Industrial robot parts	0	21469	0	3005
8537100030	Numerical controls for controlling machine tools	966	13813	135	1891
9024100000	Machines and appliances for testing metals	0	40933	0	6580
9031100000	Machines for balancing mechanical parts	0	16906	0	3452
300000	Profile projectors	0	2979	0	674
9032810040	Industrial process control instr., hydraulic or pneumatic	553902	30033	63171	5278

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	2	168
210080	1	29	0	0	0	0	0	0	2	196
290030	0	0	0	0	0	0	0	0	1	4
290040	0	0	0	0	0	0	0	0	2	17
290050	17	109	0	0	0	0	0	0	18	245
310080	0	0	3	99	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	9	156
410080	0	0	0	0	0	0	0	0	0	0
490050	1	28	0	0	17	56	0	0	7	343
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	231	0	0	0	0	0	0	8	64
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	11	260	1	38	0	0	1	7	4	250
900080	0	0	0	0	1	25	0	0	11	95
9800000002	2	25	0	0	0	0	8	36	46	482
9900000002	9	12	0	0	0	0	4	3	153	146
Month Tot	45	695	4	137	18	81	13	46	263	2166
Y-T-D Tot	307	2693	12	324	250	1885	124	4069	1996	28594
NC YTD Tot	3	181	3	99	20	554	5	585	53	6732
C&F Month	101	971	5	153	84	248	61	1917	658	10990
C&F Y-T-D	846	5671	66	979	978	8294	428	12482	5363	80077
C&F NC YTD*	8	1304	3	99	59	4739	33	4706	243	36529

Other Manufacturing Technology

1000000000	0	600	0	107	0	671	0	686	0	9190
2000000000	0	150	0	136	0	432	0	491	0	5177
2710003070	0	0	0	0	0	0	0	0	0	145
8428900010	0	0	0	0	0	0	0	0	4	75
8431390090	0	276	0	0	0	13	0	4	0	815
8456100000	2	39	0	0	0	0	0	0	3	306
200000	0	0	0	0	0	0	0	0	1	18
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	14	1427
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	7	741
200030	3	78	0	0	16	1239	0	0	0	0
200060	0	0	0	0	0	0	0	0	3	362
300000	0	0	0	0	2	45	0	0	1	277
400000	0	0	0	0	0	0	0	0	2	88
510010	0	0	0	0	0	0	13	332	1	41
510090	0	0	0	0	5	35	0	0	0	0
590000	4	25	6	100	0	0	0	0	21	619
800000	3	111	0	0	3	112	1	84	291	2383
8479899040	0	0	0	0	0	0	0	0	418	3005
908040	0	20	0	0	0	3	0	0	0	1155
8537100030	0	0	1	7	0	0	8	105	6	58
9024100000	0	95	0	4	0	8	0	73	0	536
9031100000	0	0	0	0	0	0	0	0	0	1344
300000	0	0	0	0	0	0	0	0	0	13
9032810040	1572	94	8	7	2645	137	92	30	2332	306

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	1	24	5	15	0	0	1	19
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	30	2129	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	2	83	0	0	0	0
290050	1	43	1	19	6	140	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	1	141	0	0	1	138	0	0	0	0
490050	7	88	0	0	2	32	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	2	131	1	21	0	0	0	0	0	0
990030	0	0	1	279	0	0	0	0	0	0
990040	1	220	0	0	4	182	0	0	0	0
990060	1	301	0	0	3	800	0	0	0	0
8463100080	0	0	0	0	1	14	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	9	2	144	1	13	0	0	0	0
900080	1	41	0	0	1	980	1	16	0	0
9800000002	0	0	0	0	1	13	0	0	0	0
9900000002	0	0	40	34	202	159	12	14	0	0
Month Tot	15	975	76	2650	229	2570	13	30	1	19
Y-T-D Tot	294	18307	642	16658	1213	27327	72	820	96	3456
NC YTD Tot	16	1571	32	2613	29	3414	1	140	0	0
C&F Month	26	3299	257	2837	582	3795	144	2041	7	3180
C&F Y-T-D	794	35170	1730	27198	3677	66255	538	9924	125	7912
C&F NC YTD*	51	13474	61	9056	185	28659	12	2154	3	723

Other Manufacturing Technology

	China		France		Germany **		India		Indonesia	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1216	0	4513	0	5197	0	274	0	21
2000000000	0	39	0	951	0	2525	0	109	0	806
2710003070	0	0	0	19	0	0	0	0	0	48
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	68	0	186	0	653	0	7	0	391
8456100000	0	0	4	121	3	210	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	43	1	268	0	0	0	0
106070	1	107	0	0	5	516	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	15	385	0	0	0	0
200060	0	0	0	0	2	79	0	0	0	0
300000	0	0	0	0	1	15	0	0	0	0
400000	0	0	0	0	1	3	0	0	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	1	4	1	3	0	0	0	0
590000	0	0	7	131	10	232	0	0	0	0
800000	0	0	0	0	22	522	0	0	0	0
8479899040	1	63	2	123	51	1251	0	0	0	0
908040	0	0	0	23	0	56	0	0	0	0
8537100030	0	0	20	287	20	283	0	0	0	0
9024100000	0	3239	0	104	0	233	0	150	0	0
9031100000	0	10	0	418	0	20	0	0	0	0
300000	0	0	0	3	0	3	0	0	0	0
9032810040	3692	247	2247	128	5955	364	2165	114	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

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	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	10	109	0	0	0	0	0	0	1	219
8462100030	0	0	3	2991	1	351	0	0	1	39
100050	9	656	0	0	0	0	0	0	5	535
210080	0	0	0	0	3	830	0	0	4	232
290030	0	0	0	0	0	0	0	0	3	159
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	12	798
310080	0	0	3	156	0	0	0	0	2	154
390050	0	0	0	0	0	0	1	5	8	181
410080	0	0	0	0	0	0	0	0	1	134
490050	0	0	0	0	0	0	0	0	24	724
910060	0	0	0	0	0	0	0	0	1	103
910090	2	57	0	0	5	103	1	19	43	433
990030	1	284	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	9	265	1	1384	0	0	51	1005
8463100080	0	0	1	87	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	2	61
300080	0	0	0	0	0	0	0	0	4	30
900080	0	0	4	73	19	1364	1	18	15	184
9800000002	2	78	5	17	3	984	0	0	109	888
9900000002	135	39	101	70	29	29	6	5	186	176
Month Tot	159	1223	126	3660	61	5044	9	47	472	6052
Y-T-D Tot	450	6065	1129	23699	563	16841	102	860	3329	35428
NC YTD Tot	4	606	33	3971	33	3313	1	29	51	4984
C&F Month	189	1797	254	7190	580	10861	65	896	2153	10497
C&F Y-T-D	1125	14146	5022	61287	3007	45246	262	3345	9852	69030
C&F NC YTD*	18	4246	122	13847	82	13055	6	158	186	18140

Other Manufacturing Technology

	Italy		Japan		Korea		Malaysia		Mexico	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1353	0	4992	0	1840	0	308	0	3883
2000000000	0	340	0	726	0	703	0	111	0	1823
2710003070	0	0	0	74	0	0	0	0	0	15
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	14	0	357	0	879	0	0	0	563
8456100000	0	0	11	422	4	109	0	0	1	198
200000	0	0	1	20	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	56	2772
106070	1	112	2	295	0	0	0	0	10	890
200005	0	0	7	185	9	1093	0	0	2	44
200015	0	0	0	0	0	0	0	0	1	150
200030	0	0	9	570	0	0	2	49	7	285
200060	0	0	0	0	0	0	0	0	1	152
300000	14	13	0	0	0	0	0	0	4	50
400000	0	0	1	9	42	362	0	0	1	8
510010	0	0	0	0	0	0	0	0	1	25
510090	0	0	0	0	0	0	0	0	1	32
590000	0	0	5	112	5	40	0	0	6	54
800000	0	0	8	85	0	0	3	125	48	667
8479899040	43	258	6	61	1	3	0	0	4	237
908040	0	128	0	522	0	14	0	0	0	384
8537100030	3	42	0	0	11	111	1	9	1	8
9024100000	0	17	0	941	0	198	0	0	0	161
9031100000	0	11	0	70	0	1122	0	0	0	198
300000	0	0	0	154	0	0	0	3	0	417
9032810040	995	1096	751	125	1146	104	207	10	1056	111

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

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	Netherlands		Singapore		Spain		Switzerland		Taiwan	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	3	1243	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	3	160	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	1	23	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	24	1	50
310080	0	0	1	56	0	0	0	0	0	0
390050	0	0	28	458	0	0	0	0	0	0
410080	1	253	0	0	0	0	0	0	1	144
490050	1	4	0	0	0	0	0	0	1	3
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	30	0	0	0	0	1	14
990030	0	0	0	0	0	0	0	0	2	107
990040	0	0	5	227	0	0	0	0	1	45
990060	0	0	1	20	0	0	0	0	1	181
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	42	4	58	1	18	0	0
900080	4	20	2	83	0	0	0	0	1	31
9800000002	1	14	2	15	0	0	1	88	2	35
9900000002	24	12	18	18	67	57	6	7	0	0
Month Tot	34	1546	61	971	74	275	9	137	11	608
Y-T-D Tot	693	7733	281	4220	144	3636	217	1435	200	5266
NC YTD Tot	15	1685	12	807	4	215	3	181	9	814
C&F Month	71	1791	297	1459	83	439	55	513	331	2529
C&F Y-T-D	1145	11128	2081	9376	326	4810	872	5315	1252	13194
C&F NC YTD*	21	3002	28	2048	5	242	20	2439	35	4034

Other Manufacturing Technology

1000000000	0	630	0	971	0	184	0	487	0	10754
2000000000	0	575	0	397	0	1028	0	28	0	148
2710003070	0	0	0	16	0	27	0	0	0	86
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	142	0	61	0	68	0	291	0	0
8456100000	2	25	0	0	0	0	1	16	2	234
200000	0	0	0	0	1	34	0	0	0	0
8477106010	0	0	2	200	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	0	0	0	0	0	0
200030	0	0	0	0	0	0	0	0	1	417
200060	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	20	81	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	36	157
590000	2	28	1	9	0	0	0	0	0	0
800000	0	0	4	46	0	0	1	15	23	48
8479899040	0	0	1	25	0	0	3	19	1	10
908040	0	0	0	0	0	0	0	450	0	24
8537100030	0	0	11	158	0	0	0	0	1	8
9024100000	0	25	0	66	0	31	0	4	0	150
9031100000	0	0	0	70	0	0	0	0	0	28
300000	0	0	0	0	0	0	0	0	0	42
9032810040	8682	1104	1404	98	1696	89	1464	77	777	387

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	Thailand		U.K.		USSR		Venezuela		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	15	123
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	260	0	0	0	0	0	0	2	75
210080	0	0	3	112	0	0	0	0	5	928
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	72	1821	0	0	0	0	10	241
310080	0	0	0	0	2	97	0	0	0	0
390050	0	0	0	0	0	0	1	5	4	60
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	2	19	0	0	0	0	3	37
910060	0	0	0	0	0	0	0	0	5	194
910090	0	0	1	28	0	0	2	45	10	3405
990030	4	260	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	1	205	0	0	0	0	25	611
8463100080	0	0	1	12	0	0	0	0	2	35
200080	0	0	0	0	0	0	0	0	0	0
300080	5	174	2	104	0	0	0	0	34	720
900080	0	0	16	431	0	0	1	13	34	789
9800000002	44	550	5	158	0	0	7	126	91	3072
9900000002	0	0	15	16	0	0	17	15	305	191
Month Tot	54	1244	118	2906	2	97	28	203	545	10481
Y-T-D Tot	238	6353	1089	17432	3	123	249	1528	2798	44133
NC YTD Tot	11	1077	48	2089	2	97	1	41	47	4814
C&F Month	117	1303	314	4659	3	1152	122	1186	1119	14808
C&F Y-T-D	796	8049	3448	34835	156	17747	831	8747	6627	81753
C&F NC YTD*	24	1877	146	11513	6	421	19	1863	146	17344

Other Manufacturing Technology

1000000000	0	639	0	3653	0	192	0	916	0	6900
2000000000	0	454	0	609	0	0	0	300	0	9002
2710003070	0	33	0	16	0	0	0	0	0	304
8428900010	0	0	2	27	0	0	0	0	0	0
8431390090	0	82	0	459	0	0	0	375	0	3258
8456100000	0	0	3	73	0	0	0	0	13	1148
200000	0	0	1	40	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	3	192	1	69
106070	0	0	3	234	0	0	0	0	6	381
200005	0	0	0	0	0	0	0	0	0	0
200015	1	139	0	0	0	0	0	0	2	260
200030	0	0	1	16	12	295	3	198	7	183
200060	0	0	2	60	0	0	0	0	0	0
300000	0	0	0	0	0	0	3	59	5	78
400000	0	0	5	38	0	0	0	0	4	20
510010	0	0	0	0	0	0	0	0	77	38
510090	1	14	0	0	0	0	0	0	8	97
590000	0	0	2	30	0	0	3	5	19	163
800000	0	0	0	0	0	0	6	40	87	1223
8479899040	0	0	8	49	0	0	29	316	28	211
908040	0	0	0	164	0	0	0	12	0	51
8537100030	1	11	43	678	0	0	0	0	8	127
9024100000	0	0	0	324	0	32	0	0	0	189
9031100000	0	9	0	19	0	0	0	0	0	134
300000	0	0	0	0	0	0	0	0	0	40
9032810040	13250	46	5084	238	0	0	1182	66	4769	301

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	1	15	1	15
Denmark	7	114	15	12	22	126
Finland	1	4	0	0	1	4
Greece	0	0	0	0	0	0
Hungary	8	5	1	7	9	11
Iceland	0	0	0	0	0	0
Ireland	0	0	11	882	11	882
Luxembourg	0	0	0	0	0	0
Norway	42	542	30	5	72	546
Poland	0	0	0	0	0	0
Portugal	5	3	1	7	6	11
Romania	56	5	1	25	57	30
Sweden	8	38	29	45	37	83
Turkey	0	0	18	4329	18	4329
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1047	6472	830	16949	1877	23421
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	32	32	32	32
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	33	303	0	0	33	303
Dominican Rep	2	54	0	0	2	54
El Salvador	0	0	3	62	3	62
Guatemala	0	0	3	3	3	3
Haiti	0	0	0	0	0	0
Honduras	58	44	31	165	89	210
Jamaica	0	0	0	0	0	0
Panama	4	3	1	46	5	48
Trinidad	1	15	0	0	1	15
Oth N & C Am.	5	3	1	30	6	33
TOTAL	2179	13691	806	8556	2985	22247
SOUTH AMERICA						
Argentina	9	24	7	244	16	268
Bolivia	1	5	0	0	1	5
Chile	22	695	9	85	31	780
Colombia	0	0	47	573	47	573
Ecuador	0	0	14	66	14	66
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	2	21	0	0	2	21
Oth South Am.	0	0	0	0	0	0
TOTAL	176	3599	118	1216	294	4815
OCEANIA						
New Zealand	0	0	1	28	1	28
Oth Oceania	0	0	0	0	0	0
TOTAL	56	276	46	723	102	999

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	115	459	35	535	150	994
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	12	31	15	34	27	65
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	6	31	0	0	6	31
Pakistan	0	0	0	0	0	0
Philippines	2	3	91	2091	93	2094
Qatar	0	0	0	0	0	0
Saudi Arabia	28	227	66	116	94	343
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	4	5	2	44	6	49
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	8	48	8	48
TOTAL	1637	20916	568	15464	2205	36380
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	93	1473	1	31	94	1505
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	30	19	0	0	30	19
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	36	415	36	415
South Africa	13	195	18	178	31	373
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	7	75	7	75
Zimbabwe	0	0	0	0	0	0
Oth Africa	7	5	10	255	17	260
TOTAL	143	1692	72	954	215	2646

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. – Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS – Metal Cutting Machine Tools – July 91

RELEASED: October 9, 1991

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301020	Traveling wire electro-discharge machines	414	30770	87	5664
301050	Electro-discharge machines, n.e.c., NC	118	11052	15	1043
301070	Electro-discharge machines, n.e.c., non-NC	195	2032	18	340
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm (26")	997	82576	176	13667
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm (26")	73	12263	18	1950
100035	Horizontal machining centers, ATC	297	62707	29	3974
100045	Machining centers, n.e.c.	173	107558	26	3938
200010	Unit construction mach. (single station transfer), NC	24	6249	2	1794
200090	Unit construction mach. (single station transfer), non-NC	6	1677	2	738
300010	Multi-station transfer machines, NC	9	11578	1	3591
300090	Multi-station transfer machines, non-NC	33	15272	3	1956
8458110010	Horizontal lathes, multiple spindle, NC	162	26886	24	4448
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1097	83200	142	9980
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	232	33692	28	3477
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	34	12700	5	446
190030	Horizontal engine or toolroom lathes, non-NC	2137	19746	347	3022
190050	Automatic bar and/or chucking mach., single spindle, non-NC	229	6307	18	129
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	24	2885	8	559
190090	Horizontal lathes, n.e.c., non-NC	339	14384	33	1054
911060	Vertical turret lathes, multiple spindle, NC	7	1415	4	866
911080	Vertical turret lathes, n.e.c., NC	29	7013	6	1401
915050	Vertical lathes, excl. VTL's, multiple spindle, NC	13	2887	0	0
915070	Vertical lathes, excluding VTL's, n.e.c., NC	17	3187	0	0
991050	Vertical turret lathes, non-NC	74	1343	17	668
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	287	6326	132	1509
8459100000	Way-type unit head machines	2	71	0	0
210080	Other drilling machines, NC	240	18436	27	1890
290040	Drilling machines, multiple spindle, non-NC	13	1216	1	159
290050	Drilling machines, radial, non-NC	140	1440	16	98
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	40	375	5	37
290090	Drilling machines, n.e.c., non-NC	285	7621	24	655
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	12	5575	1	378
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	55	9964	6	1215
310070	Boring-milling machines, n.e.c., NC	13	3848	1	1062
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	271	1	247
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	66	4047	9	347
400040	Boring machines, vertical, NC	8	1188	1	9
400050	Boring machines, vertical, non-NC	38	744	5	70
400070	Boring machines, n.e.c., NC	12	3848	0	0
400080	Boring machines, n.e.c., non-NC	193	3319	27	358
510080	Milling machines, knee type, NC	237	4354	12	328
590030	Milling machines, knee type, non-NC	1381	11789	264	2520
610080	Milling machines, excluding knee type, n.e.c., NC	308	23694	47	2111
690050	Milling machines, profile, dup., or die sinking, non-NC	23	632	8	28
690070	Milling machines, bed type, non-NC	24	672	6	136
690090	Milling machines, n.e.c., non-NC	241	8025	37	1614
700020	Threading or tapping machines, n.e.c., NC	110	6738	13	988
700080	Threading or tapping machines, n.e.c., non-NC	98	2910	17	472
8460110080	Flat surface grinding machines, NC	80	6588	13	664
190010	Flat surface grinding mach., recip.-table type, non-NC	251	3490	20	295
190050	Flat surface grinding machines, n.e.c., non-NC	724	8981	85	809
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	295	49258	31	6775
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	209	6177	25	1482
290030	Grinding machines, internal cylindrical, non-NC	112	3762	6	304
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	478	16289	71	1680
310080	Sharpening machines (tool & cutter grinding), NC	100	4156	17	414
390050	Sharpening machines (tool & cutter grinding), non-NC	345	3893	29	354
400060	Honing or lapping machines, NC	18	1702	1	130
400080	Honing or lapping machines, non-NC	109	6621	20	1487
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	58	3615	12	511
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	761	20343	138	3875
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	46	0	0
200010	Shaping or slotting machines, NC	3	301	1	3
200090	Shaping or slotting machines, non-NC	36	3133	5	520
300060	Broaching machines, NC	5	2814	0	0
300080	Broaching machines, non-NC	11	3826	3	699
401020	Gear cutting for bevel gears	1	518	0	0
401030	Gear hobbers	106	14072	27	2140
401040	Gear shapers	30	3417	1	268
401060	Gear cutting machines, n.e.c.	114	2233	0	0
405050	Gear grinding or finishing for bevel gears	1	49	0	0
405070	Gear grinding or finishing machines, n.e.c.	28	11922	4	1136
500050	Sawing or cutting-off machines, NC	66	9909	5	58
500090	Sawing or cutting-off machines, non-NC	870	17937	108	2215
9000000001	Metal cutting machine tools, n.e.c.	178	8660	26	494
9800000001	Used or rebuilt machine tools	1447	27658	247	4567
9900000001	Machine tools valued at less than $3,025	486374	49657	53590	6717
	Cutting Total			56154	118532
	Y-T-D Cutting Total	503381	977509		
	NC Y-T-D Cutting Total	5342	655072		

Please see notes on last page
of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – July 91

	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	1	156
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	132	1	120
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	1	290
100045	0	0	0	0	2	841	0	0	6	643
200010	0	0	0	0	0	0	0	0	2	1794
200090	0	0	0	0	1	426	0	0	1	313
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	1693
8458110010	0	0	0	0	0	0	0	0	6	1344
110030	0	0	0	0	0	0	0	0	2	381
110050	0	0	0	0	0	0	1	95	5	586
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	53	408	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
90090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	1	931	5	471
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	1	88	0	0
995090	0	0	112	843	1	10	0	0	1	4
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	108	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	10	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	2	18
290090	1	239	1	5	0	0	0	0	1	126
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	5	1199
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	52
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	14	315	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	1	22
610080	0	0	1	6	0	0	0	0	3	196
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	265
700020	0	0	0	0	0	0	0	0	1	354
700080	0	0	0	0	0	0	0	0	7	182
8460110080	0	0	0	0	0	0	0	0	1	103
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	2	0	0	0	0
210080	0	0	0	0	0	0	0	0	9	3456
290010	0	0	0	0	10	122	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	29
290050	0	0	0	0	0	0	1	4	23	833
310080	0	0	0	0	0	0	0	0	9	185
390050	0	0	0	0	0	0	0	0	8	174
400060	0	0	0	0	0	0	0	0	1	130
400080	0	0	0	0	0	0	0	0	2	357
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	22	10	34	8	315
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	7	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	25	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	25	1674
401040	0	0	0	0	0	0	0	0	1	268
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	2	363
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	30	577	1	191	31	703
9000000001	0	0	0	0	0	0	12	84	4	131
9800000001	1	136	0	0	9	109	2	6	8	342
9900000001	44	13	0	0	267	87	311	163	245	175
Month Tot	46	388	168	1271	326	2226	356	2151	432	19446
Y-T-D Tot	70	1685	434	5416	1759	11453	1344	12056	5337	249442
NC YTD Tot	4	261	13	1501	28	2581	36	6247	411	175909

Please see notes on last page of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – July 91

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	54	4326	0	0	0	0	0	0
301050	0	0	7	723	0	0	0	0	0	0
301070	0	0	4	88	0	0	0	0	0	0
8457100015	1	70	109	9372	4	190	13	701	0	0
100025	0	0	5	997	0	0	0	0	0	0
100035	0	0	28	3683	0	0	0	0	0	0
100045	0	0	4	691	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	1	3591	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	14	2947	0	0	0	0	0	0
110030	0	0	79	6136	11	760	0	0	0	0
110050	0	0	18	2368	3	358	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	10	222	12	117	22	283	1	16
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	10	722	0	0	0	0	0	0
911060	0	0	4	866	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	4	537	0	0	0	0	0	0
995090	0	0	0	0	8	543	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	26	1782	0	0	0	0	0	0
290040	0	0	1	159	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	19
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	2	191	0	0	0	0	18	61
310010	0	0	1	378	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	1	247	0	0	0	0	0	0
390050	0	0	1	264	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	5	70	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	5	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	2	568	9	390	0	0	0	0	111	807
610080	0	0	5	1164	0	0	2	82	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	1	53	0	0	0	0	0	0
690090	0	0	3	387	0	0	0	0	17	210
700020	0	0	12	634	0	0	0	0	0	0
700080	0	0	1	15	0	0	0	0	0	0
8460110080	7	49	0	0	0	0	0	0	0	0
190010	0	0	3	142	0	0	4	71	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	8	1686	0	0	0	0	0	0
290010	1	29	3	182	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	422	5	141	0	0	0	0	0	0
310080	0	0	5	49	0	0	0	0	0	0
390050	0	0	1	5	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	5	338	0	0	0	0	0	0
900060	1	397	0	0	0	0	0	0	0	0
900080	42	1683	60	1660	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	3	0	0	0	0	0	0
200090	0	0	1	52	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	674	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	144	0	0	0	0	0	0
500050	1	14	0	0	0	0	0	0	0	0
500090	4	23	19	435	0	0	0	0	1	9
9000000001	0	0	8	231	0	0	0	0	0	0
9800000001	5	75	43	1893	0	0	15	3	2	48
9900000001	1926	330	5586	793	2205	197	15	3	0	0
Month Tot	1997	3734	6164	51361	2243	2165	71	1142	151	1171
Y-T-D Tot	23195	26321	36045	422713	13474	11156	633	6621	1289	12154
NC YTD Tot	50	10140	3121	357105	94	6460	71	3392	149	1101

Please see notes on last page of the metal forming section.

U.S. IMPORTS – Metal Cutting Machine Tools – July 91

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301020	0	0	11	892	7	46	0	0	15	400
301050	0	0	6	153	1	11	0	0	0	0
301070	0	0	6	148	8	105	0	0	0	0
8457100015	0	0	0	0	23	1770	19	1041	5	270
100025	0	0	0	0	8	791	0	0	5	162
100035	0	0	0	0	0	0	0	0	0	0
100045	1	403	0	0	2	420	5	487	6	454
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	2	263	0	0	0	0	0	0
8458110010	0	0	0	0	1	52	0	0	3	105
110030	0	0	10	1105	22	1143	5	304	13	151
110050	0	0	0	0	1	70	0	0	0	0
110090	0	0	4	336	0	0	1	111	0	0
190030	0	0	0	0	87	701	31	469	131	806
190050	0	0	0	0	17	124	0	0	1	4
190070	0	0	7	531	0	0	0	0	1	27
190090	0	0	0	0	4	14	10	259	9	58
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	1	8	11	35	0	0	0	0
995090	0	0	1	21	0	0	1	9	8	78
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	2	8	1	8	11	53
290070	3	19	0	0	0	0	0	0	0	0
290090	0	0	1	34	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	16
310070	0	0	0	0	0	0	1	1062	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	30	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	9
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	12	38	0	0	0	0
510080	0	0	0	0	8	199	4	129	0	0
590030	0	0	0	0	118	597	0	0	23	135
610080	0	0	0	0	34	583	2	81	0	0
690050	0	0	0	0	8	28	0	0	0	0
690070	0	0	0	0	5	83	0	0	0	0
690090	0	0	0	0	12	52	1	22	3	678
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	7	257	1	11	1	6	0	0
8460110080	0	0	1	400	1	55	0	0	3	57
190010	0	0	0	0	7	9	0	0	6	73
190050	0	0	0	0	60	446	2	14	22	347
210080	0	0	9	1486	0	0	2	122	3	25
290010	0	0	9	1066	0	0	2	84	0	0
290030	0	0	4	245	1	30	0	0	0	0
290050	0	0	1	210	0	0	3	24	37	46
310080	0	0	2	88	0	0	0	0	1	92
390050	0	0	4	56	0	0	15	109	1	11
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	5	732	0	0	7	51	1	11
900060	0	0	0	0	6	46	0	0	5	68
900080	0	0	3	44	0	0	2	30	12	89
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	2	462	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	393	0	0	1	73	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	1	629	0	0	0	0	0	0
500050	0	0	0	0	4	44	0	0	0	0
500090	0	0	0	0	17	101	0	0	5	176
9000000001	0	0	0	0	0	0	1	42	1	7
9800000001	2	15	2	4	12	207	138	1605	8	125
9900000001	152	190	45	47	33154	3448	26	33	9614	1238
Month Tot	158	626	145	9609	33661	11297	281	6174	9955	5770
Y-T-D Tot	1886	12957	821	48033	341589	67161	1793	50067	73712	40273
NC YTD Tot	12	6362	168	22653	539	19496	239	28947	407	12918

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

RELEASED: October 9, 1991

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	163	20236	13	1397
8462100030	Headers and upsetters, including cold headers	53	10566	2	281
100050	Forging or die stamping machines, and hammers, n.e.c.	404	23279	33	1560
210080	Bending, folding, straight. or flat. mach., incl presses, NC	315	24215	69	4140
290030	Press brakes, non-NC	132	4657	12	425
290040	Bending rolls, non-NC	36	1063	3	94
290050	Bending, folding, straight., or flat., n.e.c., non-NC	567	18218	72	2755
310080	Shearing machines, NC	10	1510	0	0
390050	Shearing machines, non-NC	207	6259	44	1217
410080	Punching or notching mach., incl. comb. punch & shear, NC	126	18811	27	3694
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	261	6105	35	895
910060	Hydraulic presses, NC	8	5082	0	0
910090	Hydraulic presses, non-NC	860	13432	62	2171
990030	Presses, n.e.c., NC	3	1451	2	169
990035	Mechanical transfer presses, non-NC	8	58252	1	337
990045	Mechanical presses, n.e.c., non-NC	59	14047	6	619
990060	Presses, n.e.c., non-NC	233	14168	31	1832
8463100080	Draw benches for bars, tubes, profiles, wire or the like	108	8765	11	803
200080	Thread rolling machines	42	1298	10	114
300080	Machines for working wire	653	35106	95	5268
900080	Metal forming machine tools, n.e.c.	616	18579	65	2064
9800000002	Used or rebuilt machine tools	2220	17735	83	1479
9900000002	Machine tools valued at less than $3,025	8652	3190	1228	589
	Forming Total			1904	31903
	Y-T-D Forming Total	15736	326025		
	NC Y-T-D Forming Total	462	51069		
	Cutting and Forming Totals:				
	Monthly Total			58058	150434
	Y-T-D Total	519117	1303534		
	NC Y-T-D Total	5804	706141		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	336937	0	54378
2000000000	Parts for working rubber or plastics - heading 8477	0	198212	0	23714
2710003070	Quenching or cutting oils	0	156	0	4
8428900010	Industrial robots for lifting, handling, loading or unload	1025	19366	86	4733
8431390080	Parts industrial robots, handling and loading - heading 8428	0	54080	0	7335
8456101010	Laser, light or photon beam for working metal, NC	83	20486	20	4247
101020	Laser, light or photon beam for working metal, non-NC	52	6673	6	414
105000	Laser, light or photon beam for other materials	43	5602	7	792
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	32	114	0	0
205000	Ultrasonic processes for working other materials	28	160	2	6
8477103000	Injection molding mach., for manufacturing shoes	6	878	1	3
106010	Injection molding mach., for rubber or oth. thermosetting	518	57586	86	7643
106050	Injection molding mach., for thermoplastics	1339	131394	198	18817
200005	Extruders; rubber or other thermosetting mat., single screw	27	4281	6	208
200015	Extruders; rubber or thermosetting, other incl. multi. screw	114	13141	9	682
200035	Extruders; thermoplastics, single screw, less than 6.4cm	58	1904	5	236
200045	Extruders; thermoplastics, single screw, 6.4cm or greater	60	6606	15	1993
200055	Extruders; thermoplastics, mutli. screw, less than 6.4cm	35	3888	4	176
200065	Extruders; thermoplastics, multi. screw, 6.4cm or larger	88	11586	13	1062
300000	Blow molding machines	117	29971	13	1912
400000	Vacuum-molding and other thermoforming machines	231	12241	8	3102
510010	Machines for molding or retreading pneumatic tires	248	16184	10	2257
510090	Machines for molding or otherwise forming inner tubes	47	2996	3	26
590000	Machines for molding or otherwise forming n.e.c.	389	21242	56	4488
800000	Machines for working rubber or plastics n.e.c.	1273	97360	156	17146
8479899040	Industrial robots, n.e.c.	2309	90030	320	15007
908040	Industrial robot parts	0	19907	0	2757
8537100030	Numerical controls for controlling machine tools	5456	19601	731	2448
9024100000	Machines and appliances for testing metals	0	6669	0	699
9031100000	Machines for balancing mechanical parts	0	4361	0	555
300000	Profile projectors	0	3772	0	497
9032810020	Industrial process control instr., hydraulic	85003	2059	16199	132
810060	Industrial process control instr., pneumatic	101283	3133	14683	245

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

Metal Forming	Belgium		Brazil		Canada		France		Germany **	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	215	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	2	0	0	1	23
210080	0	0	0	0	3	244	4	18	3	635
290030	1	64	0	0	9	334	0	0	0	0
290040	0	0	0	0	0	0	1	7	0	0
290050	0	0	0	0	15	217	0	0	9	319
310080	0	0	0	0	0	0	0	0	0	0
390050	7	179	0	0	4	75	0	0	1	406
410080	0	0	0	0	0	0	0	0	2	34
490050	0	0	0	0	0	0	0	0	15	548
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	1	24	12	373	1	11	2	441
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	1	337
990045	0	0	0	0	2	7	0	0	0	0
990060	0	0	0	0	15	972	0	0	3	55
8463100080	0	0	0	0	0	0	0	0	8	452
200080	0	0	0	0	0	0	0	0	0	0
300080	1	5	1	20	1	65	0	0	10	963
900080	0	0	0	0	5	43	14	76	6	579
9800000002	4	93	0	0	29	159	0	0	5	610
9900000002	10	11	0	0	28	32	22	40	26	13
Month Tot	23	351	2	44	130	2736	42	152	92	5414
Y-T-D Tot	129	5300	26	19741	1395	27301	147	1254	988	54433
NC YTD Tot	1	561	0	0	23	3099	9	72	68	11679
C&F Month	69	739	170	1315	456	4962	398	2303	524	24861
C&F Y-T-D	199	6985	460	25157	3154	38754	1491	13311	6325	303876
C&F NC YTD	5	822	13	1501	51	5680	45	6319	479	187588

Other Manufacturing Technology

1000000000	0	194	0	132	0	9813	0	881	0	9776
2000000000	0	227	0	37	0	5337	0	1851	0	7906
2710003070	0	0	0	0	0	2	0	0	0	2
8428900010	0	0	0	0	1	14	0	0	3	2476
8431390080	0	5	0	9	0	1679	0	130	0	1070
8456101010	0	0	0	0	0	0	1	413	6	787
101020	0	0	0	0	0	0	0	0	5	301
105000	0	0	0	0	0	0	0	0	2	781
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	6	976	1	172	4	537
106050	0	0	0	0	52	7678	0	0	22	1401
200005	0	0	0	0	0	0	0	0	0	0
200015	0	0	0	0	1	3	0	0	5	434
200035	0	0	0	0	1	68	0	0	0	0
200045	0	0	0	0	0	0	0	0	0	0
200055	1	17	0	0	0	0	0	0	3	159
200065	0	0	0	0	2	56	0	0	3	498
300000	0	0	0	0	1	22	0	0	2	682
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	2	111	1	44	1	1935
510090	0	0	0	0	1	8	0	0	0	0
590000	0	0	0	0	12	1285	1	20	1	37
800000	0	0	0	0	13	244	1	129	26	4374
8479899040	0	0	0	0	0	0	19	316	5	268
908040	0	0	0	0	0	21	0	1	0	1120
8537100030	0	0	0	0	4	22	2	5	114	92
9024100000	0	0	0	0	0	54	0	10	0	78
9031100000	0	0	0	0	0	73	0	0	0	18
300000	0	0	0	0	0	0	0	0	0	170
9032810020	0	0	0	0	0	0	0	0	71	7
810060	0	0	0	0	3	117	0	0	10	4

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

Metal Forming

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	6	1132	1	50	0	0	0	0
8462100030	1	136	1	145	0	0	0	0	0	0
100050	2	7	7	658	1	17	0	0	0	0
210080	2	725	55	2356	0	0	0	0	0	0
290030	0	0	2	27	0	0	0	0	0	0
290040	2	87	0	0	0	0	0	0	0	0
290050	4	59	14	1410	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	4	134	0	0	0	0	0	0
410080	0	0	22	2922	0	0	0	0	0	0
490050	0	0	3	60	0	0	0	0	12	153
910060	0	0	0	0	0	0	0	0	0	0
910090	8	551	11	460	0	0	0	0	0	0
990030	0	0	2	169	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	2	571	0	0	0	0	0	0
990060	0	0	8	704	0	0	0	0	1	7
8463100080	0	0	3	350	0	0	0	0	0	0
200080	0	0	7	51	0	0	0	0	0	0
300080	7	485	62	2075	0	0	0	0	6	348
900080	7	45	6	410	0	0	0	0	0	0
9800000002	1	9	10	397	0	0	0	0	0	0
9900000002	39	15	208	87	0	0	0	0	27	21
Month Tot	73	2119	433	14120	2	67	0	0	46	528
Y-T-D Tot	1055	21546	2670	143350	14	512	1	300	323	2061
NC YTD Tot	24	1484	283	24168	0	0	0	0	0	0
C&F Month	2070	5853	6597	65480	2245	2232	71	1142	197	1699
C&F Y-T-D	24250	47867	38715	566063	13488	11668	634	6921	1612	14216
C&F NC YTD	74	11624	3404	381273	94	6460	71	3392	149	1101

Other Manufacturing Technology

	Italy		Japan		Korea		Singapore		Spain	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
1000000000	0	1111	0	18441	0	124	0	286	0	105
2000000000	0	745	0	4406	0	134	0	23	0	12
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	0	0	56	1638	0	0	0	0	1	61
8431390080	0	532	0	1673	0	0	0	1	0	0
8456101010	0	0	13	3047	0	0	0	0	0	0
101020	1	113	0	0	0	0	0	0	0	0
105000	1	3	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	1	5	0	0	1	1	0	0
8477103000	1	3	0	0	0	0	0	0	0	0
106010	2	83	54	4583	3	299	0	0	0	0
106050	10	485	64	6869	2	153	0	0	0	0
200005	0	0	3	38	0	0	0	0	0	0
200015	0	0	1	165	0	0	0	0	0	0
200035	0	0	0	0	0	0	0	0	0	0
200045	3	335	2	343	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	0	0	0	0	0	0
300000	0	0	3	1050	0	0	0	0	0	0
400000	0	0	3	3096	0	0	0	0	5	6
510010	0	0	5	149	0	0	0	0	0	0
510090	1	5	0	0	0	0	0	0	0	0
590000	5	1163	8	1460	0	0	0	0	0	0
800000	5	1894	60	6978	1	103	0	0	0	0
8479899040	0	0	231	12914	0	0	0	0	1	35
908040	0	38	0	971	0	1	0	2	0	0
8537100030	1	93	556	2142	0	0	0	0	0	0
9024100000	0	83	0	111	0	3	0	0	0	0
9031100000	0	70	0	365	0	0	0	0	0	0
300000	0	0	0	87	0	2	0	0	0	0
9032810020	0	0	1	6	3700	16	0	0	0	0
810060	0	0	90	25	5000	16	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
July 91

Metal Forming

	Sweden		Switzerland		Taiwan		U.K.		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	2	166	2	143	3	154	1	52	13	339
210080	0	0	0	0	0	0	0	0	2	162
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	16	341	0	0	5	46	3	210	6	154
310080	0	0	0	0	0	0	0	0	0	0
390050	1	178	0	0	0	0	20	116	7	129
410080	0	0	2	389	0	0	0	0	1	348
490050	0	0	2	95	0	0	3	39	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	25	268	0	0	2	42
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	2	41	0	0	0	0	0	0
990060	0	0	0	0	2	56	1	3	1	35
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	3	63	0	0	0	0
300080	0	0	1	604	0	0	1	10	5	693
900080	0	0	22	572	0	0	1	4	4	335
9800000002	0	0	0	0	0	0	5	123	29	89
9900000002	0	0	40	73	718	235	13	18	97	45
Month Tot	19	685	71	1918	756	822	48	575	167	2372
Y-T-D Tot	142	7841	648	12468	4550	4170	1647	11453	2001	14295
NC YTD Tot	10	1772	8	740	3	31	3	1479	30	5985
C&F Month	177	1311	216	11527	34417	12119	329	6748	10122	8142
C&F Y-T-D	2028	20798	1469	60501	346139	71331	3440	61520	75713	54567
C&F NC YTD	22	8134	176	23393	542	19527	242	30426	437	18902

Other Manufacturing Technology

	Sweden		Switzerland		Taiwan		U.K.		All Other	
1000000000	0	875	0	3921	0	1592	0	3234	0	3892
2000000000	0	89	0	436	0	672	0	593	0	1246
2710003070	0	0	0	0	0	0	0	0	0	1
8428900010	0	0	2	11	0	0	21	465	2	67
8431390080	0	212	0	257	0	153	0	520	0	1094
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	2	5	0	0	0	0	0	0	2	4
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	1	140	6	342	1	4	8	508
106050	0	0	4	812	9	225	2	174	33	1021
200005	0	0	0	0	0	0	3	170	0	0
200015	0	0	0	0	0	0	2	80	0	0
200035	0	0	0	0	0	0	4	168	0	0
200045	0	0	10	1315	0	0	0	0	0	0
200055	0	0	0	0	0	0	0	0	0	0
200065	0	0	0	0	2	26	4	164	2	318
300000	0	0	0	0	2	12	3	38	2	108
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	0	0	0	0	1	18
510090	0	0	0	0	1	13	0	0	0	0
590000	0	0	1	5	3	26	20	44	5	448
800000	0	0	4	136	8	38	9	2746	29	504
8479899040	11	465	8	154	0	0	2	670	43	184
908040	0	66	0	4	0	51	0	190	0	290
8537100030	0	0	4	40	50	54	0	0	0	0
9024100000	0	93	0	50	0	4	0	195	0	20
9031100000	0	0	0	0	0	7	0	7	0	15
300000	0	0	0	0	0	0	0	237	0	0
9032810020	0	0	1052	30	0	0	550	2	10825	69
810060	324	13	0	0	6016	27	0	0	3240	42

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	87	811	0	0	87	811
Bulgaria	9	45	0	0	9	45
Czechoslovakia	14	231	0	0	14	231
Denmark	23	134	5	61	28	195
Finland	23	30	0	0	23	30
Hungary	3	105	4	679	7	784
Ireland	0	0	1	89	1	89
Luxembourg	0	0	0	0	0	0
Netherlands	3	171	16	555	19	726
Norway	0	0	0	0	0	0
Poland	18	267	0	0	18	267
Portugal	0	0	3	69	3	69
Romania	1	9	0	0	1	9
USSR	3	66	1	35	4	101
Yugoslavia	9	314	0	0	9	314
Oth Europe	2	21	12	86	14	108
TOTAL	3761	45503	456	13317	4217	58821
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	379	106	17	24	396	130
Oth N & C Am.	0	0	0	0	0	0
TOTAL	705	2332	147	2760	852	5091
SOUTH AMERICA						
Argentina	1	36	0	0	1	36
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	169	1307	2	44	171	1351
OCEANIA						
Australia	21	174	2	270	23	444
New Zealand	8	8	0	0	8	8
Oth Oceania	0	0	0	0	0	0
TOTAL	29	182	2	270	31	452

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
July 91

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	7064	1915	64	23	7128	1938
Hong Kong	2244	35	2	320	2246	355
India	10	93	0	0	10	93
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	6	454	8	141	14	595
Malaysia	0	0	7	4	7	4
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	27	745	0	0	27	745
Oth Asia	0	0	0	0	0	0
TOTAL	51490	69208	1272	15495	52762	84702
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	25	16	25	16
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	25	16	25	16

Note: Region totals include top countries detailed by product as well as countries listed above.
** West and East Germany are combined.
Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.